

The



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JANUARY 12, 1946

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*Counter Products*


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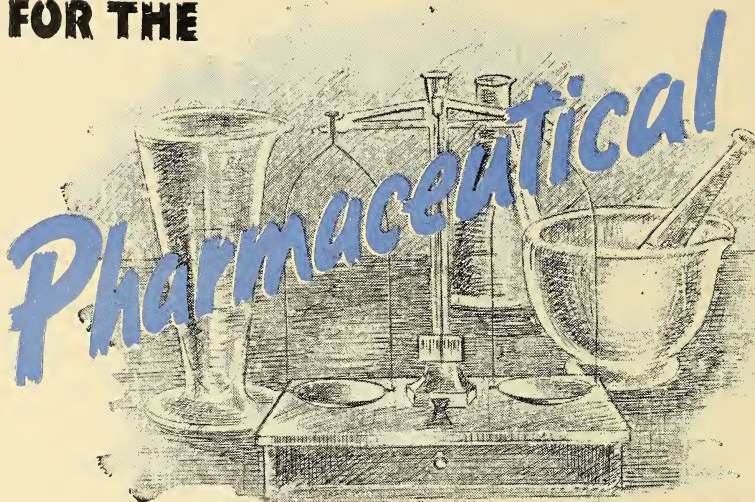
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## Delicious-Vitamin Food For Infants, Children & Adults

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'Vimaltol' is a concentrated and economical vitamin food. The vitamins are supplied from specially prepared malt extract and yeast, which is one of the richest natural sources of vitamin B<sub>1</sub>, and Halibut Liver Oil fortified with additional vitamins and minerals. It is deliciously flavoured with orange juice.

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(Exempt from Purchase Tax)*

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*For further details write to :—*

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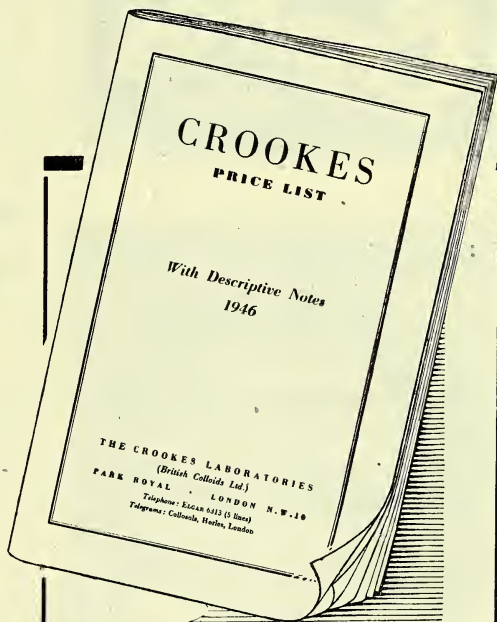


# "Ring out the Old, ring in the New"

GREETINGS to our many friends, and here is our new price list with which we herald 1946.

In a completely new form, with Descriptive Notes, this list introduces new trade terms of  $33\frac{1}{3}\%$  discount on all lines with the exception of Crookes Halibut Oil, Crookes Iodine and Black-currant Pastilles and Crookes Lacto-Calamine.

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*Crookes 1946 price list is  
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**THE PHYSICIANS' REMEDY**

*The Safe Remedy*  
**FOR COLDS AND FLU.**

Cephos is consistently advertised. It has been proved over many years to give beneficial results. Cephos does not affect the heart.

8 Powders or 16 Tablets 1/3; 21 Powders or 42 Tablets 3/-; Single Dose 2d. (inc. Pur. Tax)



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Recommend it  
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 mineral  
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 MAGNESIUM  
 POTASSIUM  
 CHLORINE  
 and VITAMIN B<sub>1</sub>**

in

**VIKELP**

*Nutritional Food Tonic*

**HEALTH PRODUCTS LABORATORIES LTD**  
 128-134 Baker Street, London, W.1



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SOLE DISTRIBUTORS: W. B. CARTWRIGHT LTD., RAWDON, LEEDS





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SILATEX  
SANTRON  
MENSINOLE**

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Special Chemists' Display Material is still available, so write to-day for a supply.

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*For Feminine Hygiene*

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## You can PROMISE 3-SECOND RELIEF from NASAL CONGESTION

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RETAILS at 1/6 (inc. tax) and shows you up to 5/2½d. per dozen profit even on small quantities when ordered with other 'Griffiths Hughes' lines. Send your order to E. Griffiths Hughes Ltd., Adelphi, Salford 3, Manchester.

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Show Material  
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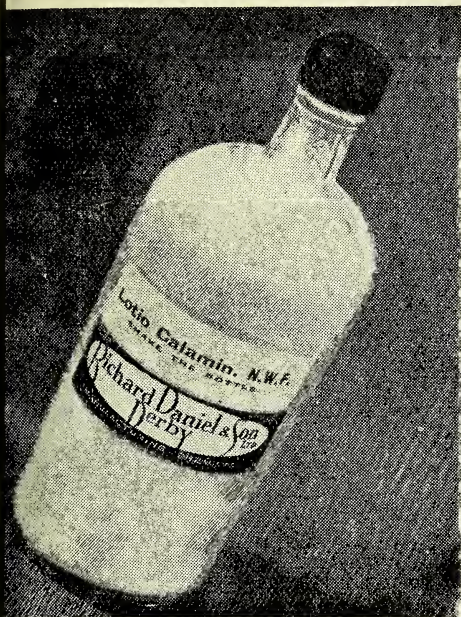
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★ ZAM-BUK MEDICINAL SOAP

★ VEN-YUSA FACE CREAM

\* At present these are all in short supply.





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We are booking orders for delivery in rotation. Our representative will be calling and will give you full particulars. As Insecticide Special sts for over 40 years and suppliers of D.D.T. preparations to H.M. Government, you can rely on these preparations being super in quality and bringing in maximum sales.

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POWDER	1/3	& 10/-		Profit Margins

Post Your Order Now if our  
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FINE SOLUBLE ESSENCES

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**WE NEED  
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Will all retailers please return all Vironita Bottles by rail to M. Calthorpe & Co. Ltd., Ossett, Yorks. Attached own address. We will pay 2/6d. per dozen plus carriage. Please ask your customers to return all empties to you.

M. Calthorpe & Co. Ltd., Manufacturing Chemists, Ossett, York





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Tins	3/4½	27/-	4/6
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for the relief of*

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*From your C.F. Wholesaler, or in case  
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1904

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and  
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assure you of

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*Watford*  
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MAKES THE HAIR BEHAVE

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EMULSIFIERS—Needing hot water only to give excellent preparations as above. Send stamp for details to—

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4. Herbalene is safe for young and old. . . .
5. Herbalene succeeds where other "remedies" fail. . . .

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PREPARATION OF OPIUM

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**MALT FOOD**

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Sole Manufacturers.  
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*Always return the empty bottles to the firm from which the full ones came.*

If your wholesaler's vanman calls, he will collect your Ribena empties. In other cases, the empties should be returned by the route they arrived.

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Ribena empties won't always be wanted. But they are wanted NOW—*very badly*.



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FIGURE  
ON  
*Jet speed delivery*  
with

THE NEW  
Photographic **Fotogram** Exposure  
CALCULATOR

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- ★ FIXED PRICE 10/6
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- 122 Different exposure-times.

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TABLES. RAPID  
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IN 20 SECONDS

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**Eagle Laboratories**

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thank their customers for their patience and forbearance during these difficult times, and assure them that every effort is being made to supply quickly lines which they have previously purchased



Adapted for  
Headache, Neuralgia  
and other powders

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17 Sizes to fit various  
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are now available

We are now in a position to manufacture large quantities of Ampoule Files and invite inquiries

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of booklets**

**HUNDREDS of  
prescriptions**

*have sent  
hundreds of  
thousands  
of bottles of*

**MENOPAX**

*to.....*

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give benefit to countless  
numbers of middle-aged  
women resulting in sub-  
stantial profit to chemists.

**Are you getting your share ?**



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WE ARE SORRY . . .

. . . though so many of you are constantly asking us for larger supplies of the famous Pinaud toilet specialities, we have to disappoint you. Truth to tell, the materials are not available to make more than a few of the Pinaud products, according to the original Paris formulæ. But the time is now not very far off, we hope, when we shall have the pleasure of announcing more generous supplies of the celebrated Pinaud toilet specialities.

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PINAUD





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with long experience, aided by modern  
scientific production facilities and  
specializing in the manufacture of

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FOUNDED 1839

ARTHUR H.



& CO. LTD.

THE LABORATORIES

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We hold that good merchandise first and foremost implies a product that is therapeutically sound and will do its job with conspicuous excellence. Secondly, it must give a service millions want; preferably one they've never had before. From the pharmacists' point of view, that means opening up an entirely new field, not giving him a duplicate of another's success and saying in so many words, "Give us the business you give the other fellow." Any manufacturer can

duplicate. We hope to make a more significant contribution—one that will increase the scope of the pharmacist's service to the public, widen his field of usefulness to the community and with it, increase his stable turnover.

But who induces such new turnover? We accept that responsibility in full. We believe in planning in the light of market as well as medical research, in scientific advertising, good packaging, and good display.

We undertake the financial burden of all that; all we ask of the pharmacist is to share the actual sales in partnership with us—not on a fifty/fifty basis, for he gets, by far, the larger 'half' of the profit that accrues. We ask his support, too, in reasonable display, and if he feels conscientiously able to give it, his frank and forthright recommendation.

For we are out to build *his* business as well as our own and we can get no success save that which is shared with him.

Simpson's is strictly C.F.

*Announcement by:*

J. W. SIMPSON (CHEMIST) LTD., IODINE HOUSE, MUSEUM STREET, LONDON, W.C.1



# M&B

*pharmaceutical products*

**AMMONIUM BROMIDE B.P.C.**

**POTASSIUM BROMIDE B.P.**

**SODIUM BROMIDE B.P.**

**and all other Bromides**

Analytical control throughout the manufacturing process and standardisation of the finished product have contributed largely to the enviable reputation enjoyed by M & B fine chemicals and your confidence in them is fully justified.

**MAY & BAKER LTD.**

**DAGENHAM**

**ENGLAND**





## SCIENCE WITH PRACTICE



## *Galenicals*—Just as over 100 years ago

the founders of this firm did real service by supplying drugs free from the then common adulterants, so now by the most up-to-date scientific control StaffAllenS maintain an irreproachable standard in their powdered drugs, liquid and solid extracts, tinctures and other galenicals. For these essential materials leading Manufacturing Chemists and Wholesale Druggists now as always rely on—

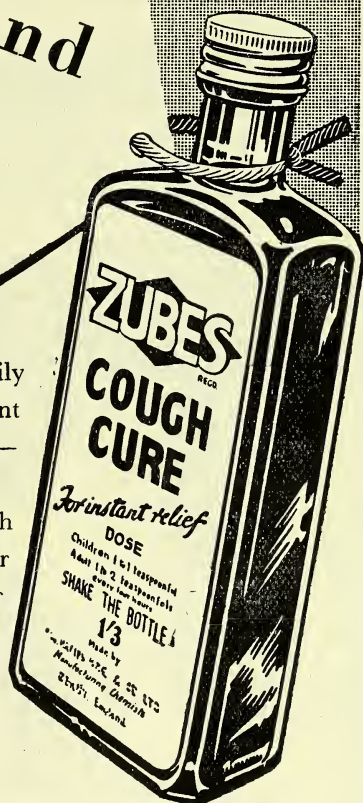
**StaffAllenS**



# A Family Friend in millions of homes

There's always a need for Zubes Cough Cure for some member of the family when cold and damp days come along. Pleasant to take—a great favourite with the children—its results are both effective and speedy.

That means consistent *repeat* sales all through the winter—and the spring too, if bad weather makes colds linger on. Don't miss your share of the big profits that Zubes Cough Cure brings. Strong advertising, week after week, all through the season, will keep the demand high.



## ZUBES COUGH CURE

Retailing at **1/3d.** and **2/5d.**

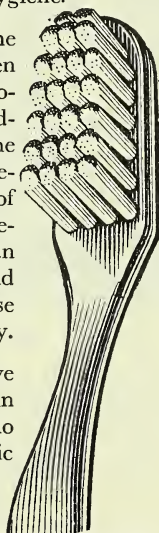
made by  
**F. W. HAMPSHIRE & Co. Ltd.**  
Manufacturing Chemists  
**DERBY**  
(Makers of the famous Zubes)

# "USE YOUR WISDOM WISELY"

**P**ROBABLY you've already seen the first of the new Wisdom advertisements in the National and Provincial press. We were inspired to prepare this "use your Wisdom wisely" series by the very high proportion of people shown to have bad teeth on joining the Forces — bad teeth due largely to sad ignorance of oral hygiene.

The Army has already done much to teach Service men how to clean their teeth properly. Our instructional advertisements will carry on the good work. They are something rather new in the way of advertising. Each advertisement has been checked by an eminent dental authority and the series will be of real use and value to the community.

People should come to have the greatest confidence in the brush made by those who sincerely have the public interest at heart.



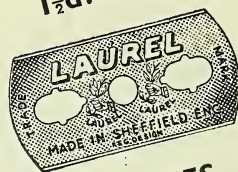
**Wisdom** REGD. **OUTLASTS  
THREE  
ORDINARY  
TOOTHBRUSH BRUSHES**

MADE BY ADDIS LIMITED. ESTABLISHED 1780



**A profitable line—  
always in demand**

**RETAIL PRICE  
1½d. each**



**SUPPLIES  
NOW AVAILABLE**

*Manufactured by*

**GEO. H. LAWRENCE LTD.  
SHEFFIELD, 3, Eng.**

*Enquiries to Sales Manager*



## SOFT SOAPS

**for Textile and other technical  
and general uses.**

*Some lines not yet available  
owing to war-time regulations.*

**W. M. DELF & CO.**

**SOAP AND DISINFECTANT MANUFACTURERS  
DELCO WORKS, RICE LANE, LIVERPOOL, 9**

*Telegrams: Glycerine, Liverpool  
Telephone: Aintree 1752 (2 lines)*

**Galjado** REGD.

**GREY HAIR POMADE**

*A Combined  
Dressing  
for the Hair.*



*An Excellent  
Tonic  
for the Scalp.*

**S. SIGAL & CO. LTD.**

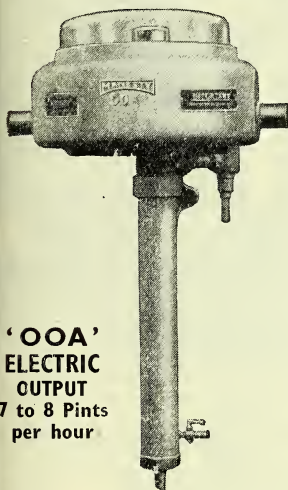
**MANUFACTURERS OF EXCLUSIVE TOILET PREPARATIONS  
47 TABERNACLE ST., LONDON, E.C.2**



## TWO POPULAR

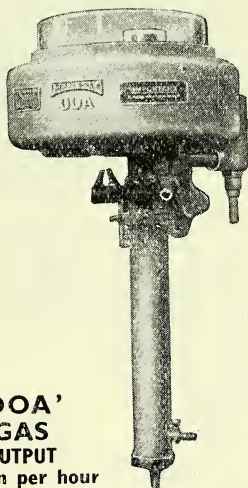


# AUTOMATIC WATER STILLS



**'OOA'**  
ELECTRIC  
OUTPUT  
7 to 8 Pints  
per hour

- PYREX GLASS COVER
- PYREX GLASS BAFFLE
- HEAVILY TINNED CONDENSER TUBE
- SUPPLIED WITH WALL BRACKET



**'OOA'**  
GAS  
OUTPUT  
1 Gallon per hour

- DISTILLED WATER AT LOW COST
- CONTINUOUS IN OPERATION
- EASILY CLEANED
- CONSUMPTION PER HOUR

GAS : 36 cubic feet  
ELECTRIC : 3 units

10 additional models available with outputs from 2 pints to 50 gallons per hour. Models can be supplied for Gas, Electric, Paraffin and Steam Heating. Full details on request.

**MANESTY MACHINES LTD.**  
**5 SPEKE HALL ROAD, LIVERPOOL, 19**

Telephone: HUNTS CROSS 1321

Telegrams. MANESTY LIVERPOOL

**THIRTY YEARS REPUTATION**

*Kenrosa*  
**HAIR PREPARATIONS**

*Kenrosa* LTD.  
LONDON. E.5.

*Manufacturers of*  
**PASHANA, FOUGERE, LOTIONS,  
MONREY'S DRY SHAMPOO ETC.**

**Kenrosa COCOA-NUT OIL SHAMPOO POWDER**  
A Delightful Creamy Shampoo that makes the hair healthy and shines, without leaving the hair heavily greasy. It is a real hair tonic. It is a real hair tonic. It is a real hair tonic.

**Everyman's HAIR CREAM**  
A Delightful Creamy Shampoo that makes the hair healthy and shines, without leaving the hair heavily greasy. It is a real hair tonic. It is a real hair tonic. It is a real hair tonic.

**Doctor HARR'S 6-8-6-B SCURF and DANDRUFF Lotion**  
GUARANTEED TO REMOVE SCURF & DANDRUFF AND TO NOURISH THE HAIR. BRITISH MADE.

Softex interleaved Toilet Tissue is now available and will be included in quota if requested

**HYGIENIC - ECONOMICAL**

**SOFT... SOFTER... SOFTX TOILET TISSUE**

A Product of SWAN MILL PAPER CO., LTD.  
Temporary Address:  
92 Regent Street, London, W.1. Tel.: Regent 0422/3

**LEE NARVILL ABROAD**

The Demand is Here, There and Everywhere. Shortly you, too, will be able to buy. For the present Miscellaneous supplies avail.

**Setting Lotion, Hair Cream, Brilliantine Cream, Cold Cream, Vanishing Cream, Brilliantine, Face and Talcum Powder, Bath Crystals, Salts and Cubes in powder form, Perfume, etc., etc.**

"By Purchasing," Gum Trag., Emulsifying Waxes Rohsem V.X. and 0584, Beeswax, Stearic Acid, Glycerine, Odourless White Mineral Oil, Oxides, Chalks, Liq. Ammonia, Borax, etc. Sodium Carb. Crystals, Sesquic. of Soda, LL/X.E.P. "Lamaur" Perfume and others.

**Colours for the above uses and Lipstick, Liq. Stocking, Leg Tan, etc., etc.**

**YOUR PACKING TROUBLES SOLVED**  
Embossed Perfumery Labels, comprehensive selection from 2/6 per 250, average 6/- per 250. Glassware—Hair Cream Jars, etc. Stoppers—Metal and Bakelite Caps, Comp. Corks, etc.

**Containers—Fancy Talcum Powder and Face Powder Boxes, Talcum Powder Tins and Fancy Xmas Boxes. Slip-on lid tins 1/2-oz. upwards. Various Lipstick tubes, Shampoo Envelopes and inner.**

**Miscellaneous—Powder Puffs, Compacts, Manicure Requisites, Curlers, Liquid Shampoo, etc.**

**Special Services—Technical Information and Formulas. Special illustrated formulas also on request. Ask for Samples, Price Lists. 3d.**

**LENNARD, LEE-NARVILL & CO. LTD.**  
**Lee-Narvill Laboratories, Anlaby Road, Hull**





# Potter's

## GALENICALS



Continuous Research

—HAVE STOOD THE TEST OF TIME  
LIQUID EXTRACTS—TINCTURES—INFUSIONS—DECOC-  
TIONS — EMULSIONS — AND ALL PHARMACEUTICAL  
PREPARATIONS

YEARS OF EXPERIENCE AND STRICT LABORATORY  
CONTROL HAVE PRODUCED A HIGH STANDARD IN  
WHICH THE TRADE CAN HAVE COMPLETE CONFIDENCE

### POTTER & CLARKE LTD.

60-64 ARTILLERY LANE, LONDON, E.1  
Phone: BISHopsgate 4761 Grams: Horehound, Phone, London

77 DANTZIC STREET, MANCHESTER  
Phone: Blackfriars 8734 Grams: Horehound, Manchester

# POST-WAR MARKET NEWS

summarising post-war opportunities, special notices, new packaging and new products

## POMP

**Permanent—Odourless—Moth Proofer**  
incorporating  
**D.D.T. & P.C.S.**

A unique combination giving complete and  
**PERMANENT** protection from **MOTHS**  
and household disinfection of other insects

**D.D.T.** kills the **MOTH** that **LAI**D the **EGGS**  
that produce the **GRUB**  
**P.C.S.** kills the **GRUB** that causes the  
**DAMAGE**

**D.D.T. + P.C.S. = POMP**

(The Anti-Moth Equation)

**R. DEMUTH LTD.**  
**MAVINS COURT, FARNHAM, SURREY**

## LABELS and SEALS of Distinction



*Special designs or stock  
wordings for all kinds  
of Toilet preparations*

*High-class Labels in  
Continental style for  
home and export trade*

*Specialists in Labels of  
quality by every process*

**WILLIAM SESSIONS LTD.**  
**THE EBOR PRESS - YORK**

## CUSTOMERS FIRST

We endeavour to distribute our limited  
supplies equally among our customers  
and maintain the best service present  
conditions allow.

*Druggists' Sundries; Toilet Requisites; Surgical  
and Rubber Appliances; Contraceptives.*

**Burge, Warren  
& Ridgley, Ltd.**

45. CITY ROAD. LONDON, E.C.1

Phone :  
CLE 1710.

Grams :  
"Drugsund, Finsquare, London."

## JOHN KNOX LTD.

beg to announce that their

### NEW PRICE LIST

is now available

Will any of their chemist friends  
desirous of obtaining a copy, and  
who have not received one, please  
make application, accompanied by  
the usual penny stamp

Cannon Street  
**HANLEY**

36-38 Dean Street  
**BIRMINGHAM 5**

• • • ■■■■■  
**Victory-V**  
FOR COLD JOURNEYS

**Famous in Name**  
and  
**Quality**

**FRYER & CO. (NELSON) LTD.**

**VICTORY V FACTORY**  
**NELSON, LANCs.**

*A reputation for reliability . . .*

**"Sentinel"**

ALL COTTON WOOL

**SANI-TOWELS**

*"with the soft seamless knitted covering"*

SIZES 1, 2, 3 AND MATERNITY also  
'KUMFEX' SOLUBLE (all with loop ends)

★ Supplies unfortunately restricted at present

**SPLENDOR LTD. Nottingham & London**



# SULPHADIAZINE

**'B.W. & CO.'**

Sulphadiazine (2-sulphanilamidopyrimidine) is a sulphanilamide derivative for use in the chemotherapy of bacterial infections. Its activity is especially marked in  $\beta$ -hæmolytic streptococcal, meningococcal, pneumococcal, staphylococcal and gonococcal infections. The drug is well tolerated, provided that adequate precautions are taken against renal obstruction.

The product is available for oral administration as 'Tabloid' brand Sulphadiazine, 0.5 gramme, in bottles of 25, 100 and 500.



**BURROUGHS WELLCOME & CO.**

(The Wellcome Foundation Ltd.)

LONDON

# KERFOOTS BACTERIOLOGICAL SUGARS

Prepared under ideal conditions which ensure the utmost possible degree of chemical purity.



ARABINOSE · DULCITOL  
INULIN · GALACTOSE  
LACTOSE · MALTOSE  
DEXTRINE (Precip. Starch Free)  
DEXTROSE (Cryst. Anhydrous)  
MANNITOL · RAFFINOSE  
SACCHAROSE · SORBITOL

Thomas Kerfoot & Co. Ltd., Vale of Bardsley, Lancashire

K12a

## ACTRON

BRAND CACHETS  
**ANALGESIC and ANTIPYRETIC**

### FORMULA :

Quinine	..	..	0.096 grams
Caffeine ..	..	..	0.054 "
Phenazone	..	..	0.150 "
Phenacetin	..	..	0.250 "
Magnesium oxide	..	..	0.100 "

### INDICATIONS :

INFLUENZA and feverish colds.  
NEURALGIA, RHEUMATISM and  
HEADACHES.  
DYSMENORRHOEA.  
PAIN following teeth extraction.

Available in boxes of 4 and 12 cachets.

## FERRAEMIA

BRAND TABLETS  
**FOR ANAEMIA**

### FORMULA :

Ferrous Sulphate exsicc. ..	2 $\frac{3}{4}$ grains
Dried Yeast ..	2 "
Copper Sulphate ..	$\frac{1}{100}$ "
Manganese Hypophos. ..	$\frac{1}{8}$ "
Excipient and coating to	8 $\frac{1}{2}$ "

### INDICATIONS :

As a tonic during convalescence and in debilitated conditions.  
Anaemia of Pregnancy.  
Nutritional Anaemia.  
Idiopathic Hypochromic Anaemia.

Available in boxes of 60 and 1000 tablets.

**WILCOX, JOZEAU & CO. LTD.**

74-77 White Lion Street, London N 1.

19 Temple Bar, Dublin





# The CHEMIST AND DRUGGIST

For RETAILER — WHOLESALE — MANUFACTURER

Published Weekly at

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "Chemicus, Estrand, London"

Telephone: Central 6565 (10 lines)

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## NEWS OF THE WEEK

**Shop Window for Britain.**—The first of a series of "shop windows for Britain," part of a campaign to attract visitors to the British Isles, is to be opened early in January at Leicester Square, London. Information will be available to callers about British resorts and municipalities.

**Nation's Revenue Up.**—Exchequer returns for the first nine months of the financial year show a reduction in expenditure by 310 million to £4,137 million. Total ordinary revenue rose by £40 million to 2,031 million. Excess profits tax fell by 37½ million to £335 million, while stamp duties increased by £6½ million to £17½ million, reflecting a revival of commercial activity. Receipts from Customs and Excise increased by £17½ million to £828 million.

**Imports of Squill.**—The Raw Materials Department of the Ministry of Supply is not now importing red squill on public account. From January 9 imports have been permitted on private account. Applications for import licences should be made to the Import Licensing Department,

Board of Trade, 189 Regent Street, London, W.1, in the usual way. Importers are reminded that red squill as a rat poison is subject to the provisions of the Ministry of Food Infestation Order, 1943 (S. R. & O., 1943, 680) which, among other things, prohibits persons from engaging in the manufacture of pest control articles except under licence.

**Health Minister's Statement.**—A pronouncement by Mr. Aneurin Bevan (Minister of Health) upon the present and future health services of the country, was made at a conference organised by the Council for Education and World Citizenship in London on January 3. The nation's

### Notice to Correspondents

Reports of meetings, notices, news items and all other editorial matter should in future be addressed to The Editor, THE CHEMIST AND DRUGGIST, 28 Essex Street, Strand, London, W.C.2.

health services, he said, had not only stood up to innumerable strains during the war, but had provided a sound foundation to meet future needs. A striking effect of the health service had been a decline in the number of diphtheria cases from 60,000 (pre-war) to 30,000 in 1944, with a reduction in deaths from 3,000 to 934. He gave a warning that, while the Government was out to revolutionise completely the hospital organisation, provision of a national health service could not be effected by the stroke of a pen.

**Smash and Grab.**—The window of the pharmacy of Frith Bros., 39 George Street, Richmond, was broken into recently, and cameras and equipment worth £80 stolen.

**Manchester Refresher Course.**—The refresher course of lectures for pharmacists at Manchester College of Technology is being resumed at 7.30 p.m. on January 15.

**Medicines in Train Buffet.**—In a new type of automatic buffet car which is being put into service on the Great Western Railway, medical requisites are among items which passengers will be able to purchase from a slot machine.

**Sales for Charity.**—Profits from sales of cigarettes manufactured by B. Laporte, Ltd., chemical manufacturers, Luton, which have mainly been given, since 1937, to charities, have resulted in an amount of £748 being distributed to various charities.

**British Witch Hazel.**—What is claimed to be the first British manufacture of distilled witch hazel is now being carried on at Torquay, where Mr. E. Quant, M.P.S., has devised a new process of extraction. It is understood that the product is competitive with U.S.-manufactured extracts.

**Drug-store Management.**—The difficulties with which drug-store managements have to contend were outlined by Mr. Neil S. Beaton (president, Scottish Co-operative Wholesale Society, Ltd.) at a recent meeting of members of the West of Scotland Branch of the National Co-operative Managers' Association.

**Eire Rugby Club.**—The first list of subscriptions to the Irish Chemists' Rugby Club include: £5 5s.—Mr. J. K. Whelehan (president, Pharmaceutical Society of Ireland); £5.—Mr. F. X. Meagher; £2 2s. each—Messrs. P. F. McGrath and R. E. Campbell; Irish Pharmaceuticals, Ltd.; Hayes, Conyngham & Robinson, Ltd.; Aspro, Ltd.; £1 1s. each—Messrs. Lyall G. Smith, P. A. Brady, D. J. Nugent, P. C. Cahill, G. C. O'Neill, J. Dearn and M. Nicell; Rice,

Steele, & Co., Ltd.; P. C. Cahill & Co., Ltd. £1 each—Mr. G. Boyd; Boileau & Boy Ltd.; May, Roberts & Co. (Ireland), Ltd. 10s. 6d. each—National Products Co. Evans Sons Lescher & Webb (Ireland) Ltd.; 5s., Mr. J. Freyne.

**Sheffield Children's Party.**—Children members of the Sheffield Branch of the Pharmaceutical Society were invited on January 3 to a Christmas party. Seventy-two children, aged from twelve months to fourteen years, were present, and the organisers had the satisfaction of seeing their efforts rewarded by appreciation. The high lights were tea, distribution of presents by Father Christmas (Mr. H. Hall), and film show. Many parents stayed to watch the fun.

**Health Commission to Scandinavia.**—A mission appointed by Mr. Aneurin Bevan (Minister of Health) is visiting Sweden and Denmark in order to study the latest developments in the administration of the public health services in those countries, particularly at hospitals and health centres. The mission consists of Captain Julian Snow, M.P. (leader), Major Donald Bruce, M.C. (Parliamentary Private Secretary to the Minister), Dr. J. A. Charles (Deputy Chief Medical Officer, Ministry of Health) and Mr. S. F. Wilkinson (a principal assistant secretary of the Ministry). The mission left for Stockholm on January 5 and will return from Copenhagen on or about January 19.

**Ulster Chemists' Association.**—The monthly meeting of the executive committee of the Ulster Chemists' Association was held in Belfast on January 3, Mr. T. A. Gibson (president) in the chair. Mr. E. A. Richey (one of the honorary secretaries) acted for Mr. J. McClenahan (secretary) who was absent through illness. The president made a report on behalf of a subcommittee that had met to consider applications for the post of assistant secretary. Five applications had been received, three persons interviewed, and the subcommittee had unanimously recommended the appointment of Miss Strachan. After discussion and on the proposal of Mr. A. E. Johnston, seconded by Mr. J. McGregor, it was agreed to appoint Miss Strachan. On the proposal of Mr. Johnston, seconded by Mr. Shinner, it was agreed that a cash balance from the social subcommittee funds should be divided equally between the fund for Magennis, V.C., and the Belfast Coal Fund. The appointment of a new social subcommittee was held over.



## OFFICIAL ANNOUNCEMENTS

**Parcel Post to Czechoslovakia.**—Parcel post has been restored to Czechoslovakia and rates may be obtained from local post offices. At present, parcels may not be insured, and are not accepted for express delivery or cash-on-delivery services.

**Changes in Insurance Contributions.**—On January 7, new weekly rates of contribution became payable for the majority of persons insured under the National Health Insurance and Contributory Pensions Acts. The new rates are shown on the current contribution cards of all persons affected. Any doubt arises, information should be sought from the district inspector to the Ministry of National Insurance, whose address may be ascertained at the local post office.

**Toilet Paper Prices.**—The Central Price Regulation Committee is considering proposals to reduce manufacturers' prices of both branded and unbranded toilet paper by 10 per cent. Toilet paper manufacturers who are not members of the Association of Toilet Paper Manufacturers, but who may have representations to make, should at once submit particulars in writing, so that the Committee can investigate any claims on special terms. The applications should be addressed to the Committee at 41 Abchurch Lane, London, E.C. 4.

**Molasses Order Amended.**—A new Order has been made amending the Control of Molasses and Industrial Alcohol (No. 18) Order, 1945, so as to adjust the maximum prices for methylated spirit and finish, acetates, butyl alcohol and acetic acid, in accordance with changes introduced by the Finance (No. 2) Act, 1945. Certain allowances in respect of spirits ceased on January 1 under Section 11 of the Act. Copies of the Order, the Control of Molasses and Industrial Alcohol (No. 19) Order (S. R. & O., 1945, No. 1656) may be obtained from the M. Stationery Office, Kingsway, London, W.C.2, price one penny.

**Air Mail to Eire.**—From January 15, an air mail service for letters, postcards and letter packets, not containing goods or commodities, is to operate between Great Britain and Eire. Air mail correspondence for the first trip may be posted in Great Britain on January 14, and the first dispatch from Eire will bring air mail correspondence posted early on January 15. Correspondence intended for transmission by the new service is subject to a prepayment fee of 3d. for 8 oz. or fraction thereof.

A blue air-mail label should be affixed or the words "Air Mail" written in the top left-hand corner of the address side of letters and postcards. In general, the service will offer advantages in delivery varying between twelve and twenty-four hours, according to time and place of posting.

**Commercial Correspondence with Austria.**—The Board of Trade announces that a general licence (S. R. & O., 1945, No. 1601) has been made by arrangement with the Postmaster-General, authorising business communications with Austria. From January 2, British and Austrian firms have been entitled to exchange business information with a view to a resumption of business relationships at a later date. The resumption of private trade is not yet permissible, and Austrian-owned property in the U.K. continues for the time being to be under the control of the Trading with the Enemy Department and Custodian of Enemy Property. Postage rates are as follows: Letters (1 oz.), by air mail, 5d.; by surface route, 3d.; postcards, by air mail, 2½d.; by surface route, 2d.; money order and parcel post services are not available.

**Industrial Clothing Coupons.**—As announced recently by the President of the Board of Trade in the House of Commons, a wide range of manual workers in industry is now entitled to ten additional clothing coupons in the current rationing period. The eligible workers are those accepted by the Board of Trade on the advice of the British Employers' Confederation and the Trades Union Congress. Details of eligibility, and of the methods of application and issue, are set out in a leaflet TC/46. Part-time workers will be eligible if they work at least twenty-two hours weekly, and supervisory workers if they are exposed to exceptionally hazardous conditions. Arrangements have been made, in line with the system already operating for "the industrial ten," to issue coupons to workers who enter employment for the first time during the run of a rationing period. The coupons are available to employers and trade union branches from January 3 until March 2, together with the necessary forms of application and the leaflet already referred to. In Northern Ireland, applications for industrial clothing coupons should be made to the nearest employment exchange, and in the Isle of Man to the Inspector's Office, Local Government Board, Murray House, Douglas.

## LEGAL REPORTS

**Deficient Boric Ointment.**—At Marylebone police court, on December 17, 1945, a summons against F. W. Woolworth & Co., Ltd., for selling, at their Kentish Town, London, branch, to the prejudice of the purchaser, boric ointment 52 per cent. deficient in boric acid, was withdrawn after the company had in turn summoned their suppliers, C. A. Stokes & Co., Great Castle Street, Bristol, as the real offenders. For the prosecution it was stated that a sampling officer bought six tins of the ointment and it was found that, whereas the ointment should have contained 1 per cent. boric acid, its actual content was only 0.48 per cent. Until February 1945 the official standard for boric acid was 10 per cent., and it was then reduced to 1 per cent. Counsel for Messrs. Stokes said that the company had been in business for thirty-two years without previous complaint. The deficiency was apparently due to faulty mixing by a machine, the beaters of which had thrown the boric acid to the side of the mixing cylinder. The deficiency amounted to only  $\frac{1}{2}$  oz. per ton, and the whole of the batch of ointment had been withdrawn from the market, and had either been returned or was being returned to the defendant company. The magistrate stated that there was little enough boric acid in the ointment, even at 1 per cent., and the deficiency that was the subject of the prosecution was a serious matter for the public. In all the circumstances, however, he dismissed the summons on payment of £5 5s. costs.

**Pharmacy Act Fines.**—At Acton, London, magistrate's court on January 2, Phillips & Taylor, Ltd., 188 Acton Lane, Acton, were summoned for unlawfully using the title chemist, for selling tablets containing poison without the container being properly labelled, and for selling the tablets while not authorised sellers of poison. Dr. Stuart Phillips Taylor (managing director) pleaded guilty. He said that since the firm's pharmacist had left the company had not been able to get another one. The mistake had been in supplying the retail department with goods from the manufacturing department, as these goods had the words "manufacturing chemist" on the label. Fines totalling £25, with £5 5s. costs, were imposed.—At Doncaster recently, Doncaster Co-operative Society, Ltd., were fined £25, with £10 10s. costs, for five contraventions of the Pharmacy and Poisons Act, three being in respect of sales at premises which had ceased to be registered

under the Act, and two in respect of containers not labelled to show the name and address of the retailer. For the Pharmaceutical Society, it was stated that for number of years branch shops had ceased to have a qualified pharmacist in charge and the Society had ceased to become authorised sellers of poisons. On behalf of the Co-operative Society, which pleaded "guilty" to "highly technical offences" the magistrate was asked to say the offences were of a minor nature.—At South-west London magistrate's court, recently, M. W. Edwards, trading as Wilson & Co. Garratt Lane, Wandsworth, was fined 20s with £3 3s. costs, for selling by retail, not being an authorised seller, a poison (codeine) in Veganin tablets. To an agent employed by the Pharmaceutical Society Edwards had said "I am covered by a licence I hold which allows me to sell this," referring to a licence issued by the local authority for the sales of domestic poisons. Mr. Edwards was at one time a registered pharmacist but his name had been removed from the register.

## INQUESTS

**Open Verdict.**—An open verdict was returned at a resumed inquest at Stoke Newington, on Miss Mary Emily Godwin, 16 Red Lion Square, Newcastle, Staffs, who died from taking an overdose of allyl isopropylacetyl urea, which it was stated had been purchased from a Rhyl chemist. The coroner said there was no evidence to say if the woman took the drug intentionally.

**Suicide Verdict.**—A verdict that she took her life while the balance of her mind was disturbed was returned by the Hammersmith coroner, recently, on Miss Mary Barber, Hammersmith, a doctor's secretary who was found dead in her flat after taking an overdose of Sedormid. It was stated at the inquest that Miss Barber was the daughter of an analytical chemist and had suffered from nervous trouble. The medical man by whom she was employed said she had been his secretary since the spring of 1945. He had prescribed for her from time to time, as she suffered from insomnia, but had never ordered Sedormid. The drug could be purchased at a pharmacy without prescription. A pathologist gave evidence that death was due to a large overdose of Sedormid. From tests he had made he had found that about ten times the ordinary medicinal dose had been taken.



## TOPICAL REFLECTIONS

### Planning for Marketing

Three announcements on p. 22 of your last week's issue supply welcome evidence of planning for competition in the world's markets. The combination of the seven leading houses indicated by you makes a strong team; there can be no doubt that the work of surveying commercial openings in the countries selected will be carried out thoroughly, and that the new company will be the most practical method with the reports received. The new agreement for supplying dyestuffs for Indian requirements gives similar promise of expansion in this class of exports from Great Britain. The exhibition to be held under the auspices of the Council of Industrial Design is fixed, it appears, for some time in July: it follows that firms intending to show samples will be wise to take immediate steps in that direction, if they have not already done so. Submission to selection committees is likely to involve a lengthy wait for a verdict, and it is probable that early application will be insisted upon. My reason for calling attention to this point is based on realisation of the possibility of excellent products being rejected at a late stage in favour of less important goods which, being ready earlier, secure longer consideration. Numerous visits to exhibitions of this or a similar type between the two major wars have led me to suspect a tendency on the part of selection committees to choose an undue proportion of what may (I trust without offence) be called minor exhibits.

### Middlesbrough Discussion

The Tees-side Branch of the Pharmaceutical Society is to be congratulated on inviting so practised a speaker as Mr. W. J. Strimling and on the high standard of the discussion that followed his recent address (p. 23). To attempt to pick out the plums from your report would be an invidious task: they may be said to vary in size according to the prepossessions of individual readers. The speakers, including the mover and seconder of the vote of thanks, showed a wholesome sense of realities, and repounded some searching questions. I venture to append a brief note of caution. The vicissitudes of a Bill in its passage through Parliament are proverbial: when reamblings were customary, it used to be said that the only word certain to remain unchanged in the final form of a Bill as passed was "whereas." Conditions being as we know them, it is probable that phar-

macists will not get all they want in the next Health Service Bill that reaches the statute-book. Ceaseless vigilance will be needed during its passage through the two Houses in order to safeguard so far as may be the right of pharmacy to an equitable place in the scheme. Otherwise, even its present standing may be jeopardised. In this connexion a reference made in your Editorial (p. 21) to a digest of new legislation recently enacted in Northern Ireland, is opportune. Acts governing pharmacy in one part of the Empire frequently have repercussions elsewhere.

### Violin Varnishes

The heading "Violin Varnish" (p. 11) recalls an occasion or two when advice on this subject was sought by experimenting amateurs. My knowledge of these substances is almost entirely derived from "Pharmaceutical Formulas," which has given invaluable support in dealing with this and other unusual requests. The article in Grove's Dictionary of Music on the most famous of makers of violins, Antonio Stradivari, includes several details about this feature of his work. In what is there called his second period (1680-98) his varnish varied; sometimes it had a rich golden colour, but at other times it was reddish. At the height of his maturity (roughly from 1699 to 1725) his use of the latter varnish was invariable, or nearly so; and he availed himself of a device known as "breaking up" the varnish on the back of the instrument, thus imitating the effect of wear. In his latest years he sometimes reverted to the golden-brown tint—or, it has been suggested, his son may have carried out this part of the work. Both of these types were oil varnishes; but occasionally he used a spirit varnish. Unless recent research has disclosed the composition of some or all of these solutions, they still remain trade secrets after more than 200 years. The high degree of responsiveness of the best Strads is, of course, due not to the varnish alone, but also to the kinds of wood selected and, most of all, to superb craftsmanship. Tall stories appearing from time to time about musicians' inability to distinguish between the tone of a Strad of the maker's best period and that of a violin of the twentieth century may be received with due scepticism. A jury of professional violinists would not be seriously puzzled before deciding between the two, though a jury differently chosen might be.

**Xrayser**

## TRADE NOTES

**Sanitary Towels.**—Supplies of Femex sanitary towels are available in various sizes from Wilfred Stretch & Co., Ltd., Castleton, Rochdale, Lancs.

**Rubber Sponges Again.**—Sorbo, Ltd., Woking, Surrey, announce that Sorbo, the original sponge rubber, will shortly be again available in many new shapes.

**Reduction in Prices.**—Consequent upon increased output, with reduction of selling and distribution costs, A.R. Ltd., 139 Strand, London W.C.2, have reduced the prices of Klerosal bath concentrate.

**Toilet Tissue on Quota.**—Swan Mill Paper Co., Ltd., 92 Regent Street, London, W.1, state that Softex interleaved toilet tissue is now available and will be included in quota if requested.

**Shampoos of Pre-war Standard.**—Henna Products, Ltd., Ware, Herts, state that their henna (blue square), chamomile (red square) and specially blended (green square) shampoos are still being manufactured to pre-war standards.

**Appropriate Customers.**—Beaufoy's Wines, Ltd., Caron Place, South Lambeth Road, London, S.W.8, hint that many stockists are reserving supplies of Winox meat and malt wine for convalescents and persons of weak digestions.

**Recommended Sundries.**—The claim that they are recommended by doctors and nurses is made for Perfex and Satinetta enemas by the makers, J. G. Ingram & Son, Ltd., Hackney Wick, London, E.9, who are also manufacturers of air cushions, breast relievers, etc.

**Medicated Tulle.**—The various advantages claimed for Optrex tulle, the sole distributors of which are Charles F. Thackray, Ltd., the Old Medical School, Park Street, Leeds, are set out in an advertisement which appears on another page in this issue. Trade terms are given.

**Market Among Demobilised Mén.**—Fred Hurtle, Ltd., Keighley, Yorks; suggest that men returning from the Forces will create an increased demand for Litesome supporters, particulars of terms and display material for which are obtainable on application to the makers.

**Freely Available.**—The makers of Planacrine antiseptic lozenges, which are available in boxes containing forty, state that supplies are now freely available, and that

all demands placed through the distributor—Pharmaceutical Specialities (May Baker), Ltd., Dagenham—can therefore be met.

**"Air-strip" Dressing.**—Herts Pharmaceuticals, Ltd., Welwyn Garden City, Herts are offering their speciality Handyplaster which is described as "the plaster dressing with the air-strip," in a new tin pack instead of the previous orange cartons. The preparation is available from the makers in two sizes.

**Large Size Reintroduced.**—The sole distributors of Urillac tablets for nerve pain—W. B. Cartwright, Ltd., Rawdon, Leeds—have reintroduced the large size (seventy-five tablets) of this speciality. Attractive packs for counter display are available and the product is being consistently advertised.

**How to Send Back Empties.**—H. V. Carter, Ltd., the Old Refinery, Bristol, give in this issue a simple guide on returning empties to the ever-increasing number of chemists who are handling Ribena black currant syrup from their customers. Summarised, the recommendation is to return empty bottles always to the supplier from which the full ones came.

**Plastic Skin.**—Attention is drawn by the Portland Plastics, Ltd., 214 Great Portland Street, London, W.1, to their preparative Portex medicated plastic skin, which is claimed to give immediate relief in chilblains, sore feet, abrasions, burns, cuts, etc. A full list of applications and particulars of trade terms and stockists are given in an announcement that appears elsewhere in this issue.

**1946 Price List.**—The Crookes Laboratories (British Colloids, Ltd.), Park Royal, London, N.W.10, in sending New Year greetings to their customers, draw attention to the company's new price list, which has recently made its appearance. The list is in a new form and is accompanied by descriptive notes. New trade terms are being allowed, and all previous terms and discounts are rendered obsolete.

### Proprietary Articles Trade Association

**Addition to Protected List.**—Parke, Davis & Co., Ventron capsules, 50's, 8s., 67s. 6d. do (exempt from tax).

**Alterations.**—Numol, Ltd., Proctor's Pine lyptus pastilles, 2-oz. tin, 18s. doz., tax 3s. doz inclusive retail price 2s. 3d.



## BUSINESS CHANGES

MR. IAN B. SMITH, M.P.S., D.B.A., has joined the staff of Allen & Hanburys, Ltd., London.

MR. J. L. ARMSTRONG has been appointed manager of Imperial Chemical Industries, Ltd., on the retirement of Mr. P. C. Dickens.

EMILY NEWINGTON has acquired a business in made-up medicines and toilet goods formerly carried on at 45 Plantation Street, Glasgow, by Mary Warren.

MR. RAYMOND WILFRED COOKE, M.P.S., Birmingham, has acquired the pharmacy at 8 Andover Road, Winchester, formerly carried on by Mr. S. A. Richardson, M.P.S.

MR. J. J. TYRRELL, M.P.S., assistant sales manager (pharmaceutical) to Allen & Hanburys, Ltd., London, has been appointed head of the buying department.

MARY McDAID, Abercorn Street, Glasgow, has acquired a business of made-up medicines and toilet goods previously carried on at 15 Royston Road, Glasgow, by John Douglas.

MR. ALEXANDER CRICHTON has acquired a business in made-up medicines and toilet goods previously carried on at 26 Glenhavis Street, Glasgow, by Mr. Joseph Weeney.

THE MISSES M. F. and F. B. C. AGNEW have acquired a business in made-up medicines and toilet goods previously carried on at 60 Shamrock Street, Glasgow, by Mr. Men Sefi.

MESSRS. J. A. PENTECOST and C. C. LUSSEY have returned to A. Boake, Roberts & Co., Ltd., after serving with the Royal Air Force, and will take up again their positions of sales executives.

MR. G. M. PLUMB has relinquished his appointment as head of the buying department of Allen & Hanburys, Ltd., London, after fifty years' service. He is being retained in an advisory capacity.

MR. WILLIAM STANLEY HOLMES, M.P.S., who in 1940 closed his business at 18 South Street, Manningtree, Essex, to join the Royal Air Force, has been demobilised and has opened a pharmacy at West Street, Aylesford, Hants.

MR. D. O. DRAKE, M.P.S., who has been demobilised from the Royal Air Force, in which he held the rank of Flight-Lieutenant, has been appointed assistant sales manager (pharmaceutical) of Allen & Hanburys, Ltd., London.

ACCINGTON AND CHURCH CO-OPERATIVE SOCIETY, LTD., have acquired a pharmacy, and empty premises next-door, near the

centre of Accrington. The Society is to take over in February and a pharmacist is to be engaged as manager.

MR. P. J. GRANT, M.P.S., is taking up his duties again as dispenser at J. H. Carre, Bordage Street, Guernsey. Mr. Grant was among hundreds of civilians who were deported to internment camps in Germany. He was repatriated to England at the end of the war.

THE partnership between Messrs. P. V. Sharp and A. E. Humble, under the style of Burkett, Sharp & Humble, produce merchants, 110 Cannon Street, London, E.C.4, has been amicably dissolved. The business is being continued by Mr. P. V. Sharp under the style of Burkett, Sharp & Co., and the new firm will discharge all outstanding liabilities of the previous partnership.

## C. & D. DISPENSING PRICE LIST

THE following changes should be noted for January 1946:—

Cost		<i>Due allowance has been made for purchase tax in both cost and dispensing prices</i>	Dispensing price		
d.	per		4 oz.	1 oz.	1 dr.
			s. d.	s. d.	s. d.
96	lb.	Acid. hydriodicum dil. . . . .	3 8	1 0	0 2
10	lb.	Acid. hydrochloricum dil. . . . .	0 5	0 2	—
6	oz.	Betanaphthol . . . . .	—	0 11	0 2
15	oz.	Cardamomi sem. pulv. . . . .	—	2 3	0 4
10	oz.	Chloroxylenol . . . . .	—	1 6	0 3
35	gr.	Colchicina . . . . .	—	pergr.	5 0
18	gr.	Emetina hydrochlor. S.1 (4) . . . . .	—	pergr.	2 8
35	lb.	Emuls. ol. morrh. c. hypophosph. B.P.C. . . . .	1 3	0 4	—
28	oz.	Ergota preparata S.1 (5) . . . . .	—	4 1	0 7
27	oz.	Ext. senegæ liquidum . . . . .	—	4 1	0 7
26	lb.	Ol. morrhuae . . . . .	0 11	0 3	—
30	oz.	Pepsinum . . . . .	—	4 5	0 8
63	lb.	Pulv. lobeliae co. B.P.C. . . . .	2 4	0 8	—
56	lb.	Pulv. stramon. co. B.P.C. . . . .	2 0	0 7	—
19	oz.	Salol . . . . .	—	2 9	0 5
27	lb.	Sodii phosph. acidus . . . . .	1 0	0 4	—
42	lb.	Syr. glyceroph. c. format. B.P.C. P. 1 (9 and 13) . . . . .	2 0	0 7	—

## MARRIAGES

FLOYD—WALSH.—At Blackburn, recently, Joseph Collin Floyd, B.Sc., Ph.C., Bolton, to Irene Walsh, S.R.N., Blackburn. The



bride and bridegroom received handsome presents from the pharmaceutical laboratories of Imperial Chemical (Pharmaceuticals), Ltd., Manchester, at which the bridegroom is employed, and from the staff at Bolton borough hospital at which the bride was a staff nurse.

HOLMES—TROTTER.—In London, on January 3, Sergeant Robert William Holmes, Veedersburg, Indiana, U.S.A., to Margaret Deans Johnstone Trotter, daughter of the late Mr. James Trotter, M.P.S., 1395 Paisley Road West, Glasgow, S.W.2.

MARTIN—MCNEILL.—At All Saints' Church, Belfast, on December 15, 1945, William Martin, Ph.C., Annalong, co. Down, to Annie Eleanor McNeill, Belfast.

## DEATHS

ALLAN.—At Moray Park, Inverness, on December 19, 1945, Mr. Alexander Allan, M.P.S. Mr. Allan qualified in 1875.

BERTLES.—On December 29, 1945, Mr. Samuel Richard Gorst Bertles, M.P.S., 193 Chester Road, Grappenhall, Warrington, Lancs, aged seventy-four. Mr. Bertles qualified in 1897 and had been in business in Warrington for thirty-nine years.

BRETT.—On January 8, Mr. Percival Croad Brett, M.D., M.P.S., 16 West Heath Avenue, London, N.W.11. Dr. Brett qualified as a pharmacist in 1904. He served for a time with W. Martindale, and was in business on his own account before joining Boots, Ltd., on January 1, 1911. After qualifying as a physician he was appointed a director of the company.

BUTLER.—On December 17, 1945, Mr. Benjamin Herridge Butler, M.P.S., 10 London Road, Reading. Mr. Butler qualified in 1884. He was the proprietor, until his retirement ten years ago, of a pharmacy in London Road, Reading, which was then taken over by his son, Mr. J. R. Butler, M.P.S.

CLARK.—On December 18, 1945, Mr. J. J. Clark, wife of Mr. John J. Clark, M.P.S., 128 Fir Tree Road, Banstead, Surrey, aged eighty-nine.

GIBSON.—Suddenly, at his home, Gramerci, Larchfield Avenue, Newton Mearns, recently, Mr. Arthur J. Gibson, manager in Scotland for Bovril, Ltd. He is survived by a daughter.

HAWORTH.—Recently, Mr. Clifford Haworth, Spilsby, Eastfield Crescent, Higher Compton, for several years manager of the Mutley Plain, Plymouth, branch of Boots, Ltd. Mr. Haworth qualified in 1922. He is survived by his widow and a four-and-a-half-months-old son. The interment at Efford cemetery was preceded by a service at Emmanuel Church.

HELLIWELL.—On November 11, 1945, Mr. John Helliwell, M.P.S., 24A Flint Green Road, Acocks Green, Birmingham, 27. Mr. Helliwell qualified in 1937.

HOPE.—Recently, Mr. William John Hope, 5 Oakbank, Chorlton-cum-Hardy, Manchester. Mr. Hope qualified as a chemist and druggist in 1898.

JAMIESON.—As the result of a motor accident recently, Mr. Simpson Jamieson, M.P.S., formerly of 12 Granville Garden, Ealing Common, London, W.5, aged eighty-six.

JAMIESON.—As briefly recorded last week (p. 6), Mr. W. R. Jamieson, chairman of Ayrton, Saunders & Co., Ltd. Mr. Jamieson had been chairman of the board since 1941 and not as previously stated. He became a director in 1924, retaining the secretaryship of the company; in 1930 he became deputy-chairman and from 1940 until the death of Mr. Nixon, after a prolonged absence caused by illness, was acting



airman. He leaves a widow and one son. A colleague writes:—

"There is no one person in the company who could adequately convey an impression regarding this tragic severance between the company and one of its oldest and most faithful servants. Some would have insufficient personal knowledge of Mr. Jamieson to fit them for the task; others would have an inadequacy of exact words to pay tribute to the man, his labour for the company, his character as a citizen, his gentleness and good nature to all, his happy and comforting presence, his profound knowledge of commercial affairs generally, and particularly of those which he undertook to study in connexion with his own business, his affection for friends, and above all his devotion to his family. Whilst the shock to each one of us is intense, we know quite well what his reaction was when he had to face the news of the death of his immediate predecessor in the chair. The decision to go right forward with the policies of the company was gripped immediately, and most worthily. He added to his long years of service by his illustrious occupancy of the most important position in the company. The effect of his brilliant leadership and his own hard work was apparent to every contact of the company, and indeed will be calculated in terms of personal values. Those who will carry on have a great trust handed down to them, and there is no shadow of doubt that the task will be carried forward with equal steadfastness, and in the traditions which William R. Jamieson did so much to build over a period of forty years."

McADAM.—On December 22, 1945, Mr. Thomas J. McAdam, Ph.C., Campsie Road, Omagh, co. Tyrone. For almost sixty years Mr. McAdam had been registrar of the Tyrone County Hospital and a senior director of McAdam & Bates, Ltd., chemists, Omagh. He was admitted to the Northern Ireland Register in 1926. Mr. McAdam was senior elder at the Trinity Presbyterian church, Omagh, and for many years clerk of session. He claimed membership of the church choir for more than eighty years and was its leader for fifty years. He is survived by a son and two daughters.

MILLER.—At a nursing-home in Edinburgh, on January 3, Mrs. Jean Skinner Miller, widow of the late Mr. Alexander Miller, M.P.S., Gorebridge.

PRYSOR-JONES.—At her home, 98 Melreck Avenue, Allerton, Liverpool, recently, Mrs. Mary Prysor-Jones, widow of the late

Mr. David Prysor-Jones, M.P.S., Liverpool. Mrs. Prysor-Jones survived by only a few days her son, Mr. Evan Glynne Prysor-Jones, dental surgeon for the Liverpool Corporation, aged thirty-four.

TOMLINSON.—Recently, Mr. Mark Walter Tomlinson, M.P.S., 45 South Road, Morecambe. Mr. Tomlinson was in business in Burnley until his retirement to Morecambe in 1938. He had been a Freemason for twenty years; representatives of several Lodges attended the funeral on December 19, 1945.

VINE.—On December 24, 1945, Mr. C. A. Vine, A.C.A., who was recently appointed a joint manager of Southall Bros. & Barclay (1935), Ltd., aged forty-two.

WARDLE.—On December 21, 1945, Mr. Frederick Cavendish Wardle, M.P.S., Broom Bank, Mancetter Road, Atherstone, Warwickshire. Mr. Wardle qualified in 1904.

WATT.—At a hospital in Paisley, on January 5, Mr. William Hamilton Watt, M.P.S., 63 Seres Road, Clarkston, Glasgow, aged sixty-eight.

WILLS.—Suddenly, at 53 Richmond Road, New Barnet, Herts, on December 31, 1945, Mr. Charles Albert Wills, aged seventy-three. Mr. Wills joined the firm of William Edwards & Son in 1889 and continued as a representative of the business when it was taken over by May, Roberts & Co., Ltd. His service with the two businesses totalled fifty-six years.

WOOD.—At his home, 144 Thurlow Park Road, London, S.E.21, on December 26, 1945, Mr. Vincent Wood, aged eighty-seven. Until his retirement in 1936, Mr. Wood was proprietor of the business of Vincent Wood, manufacturers of surgical supplies, Newington Causeway, London, S.E.1, which he founded in 1882. He celebrated his diamond wedding on April 2, 1945. Mr. Wood is survived by his widow, three sons and three daughters. He was a founder of the Valentinia Lodge of Freemasons and a member of London Grand Rank.

## WILLS

MR. FRANKLIN BERNARD CHALMERS, M.P.S., 13 Ruth Road, Pontypool, Mon, left £6,907, with net personalty £6,841.

MR. JOHN ALEXANDER ROSS, 31 Cromwell Road, Aberdeen, formerly for over twenty years a representative of Ayrton, Saunders & Co., Ltd., Liverpool, left personal estate in Great Britain valued at £389.

## COMPANY NEWS

REVLON PRODUCTS (GREAT BRITAIN), LTD.—Capital £20,000. Manufacturers of and dealers in cosmetics, etc. Directors to be appointed. R.O.: 123 Wardour Street, London, W.1.

MICHAEL STEWART, LTD. (P.C.).—Capital £300. Manufacturing and dispensing chemists, etc. V. H. Iddon, M.P.S., and N. S. Iddon, M.P.S., directors. R.O.: 173-75 Hallgate, Cottingham, E. Yorks.

CAPELLE, LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in perfumery, essences, soaps, etc. F. E. Capelle and M. Paillard, directors. R.O.: 14 Buckingham Palace Road, London, S.W.1.

PUGH'S VETERINARY MEDICINES, LTD. (P.C.).—Capital £2,000. Manufacturers of and dealers in veterinary medicines, etc. Richard J. and Harry G. Pugh, directors. R.O.: 318 North Road, Cardiff.

SUFFOLK BRUSH CO., LTD. (P.C.).—Capital £30,000. Manufacturers of and dealers in brushes. Robert Addis and John Perry, directors. R.O.: Brush Works, Ware Road, Hertford.

JAMES P. GILLESPIE & Co., LTD. (P.C.).—Registered in Dublin. Capital £200. Manufacturing chemists, druggists, dry-salters, etc. James P. Gillespie, New Road, Carndonagh, co. Donegal, director.

ALDWYCH PHARMACY, LTD. (P.C.).—Capital £1,000. Chemists, druggists, etc. William P. Neathercoat, M.P.S., and Gertrude L. Matthews, directors. R.O.: 13 Aldwych, London, W.C.2.

TECHNICAL DETERGENTS, LTD. (P.C.).—Capital £100. Manufacturers of and dealers in chemicals, disinfectants, etc. Directors to be appointed. R.O.: 13 Princes Street, Cavendish Square, London, W.1.

A. & B. LEES (1945), LTD. (P.C.).—Capital £5,000. Manufacturers of and dealers in toilet, surgical and fancy goods, etc. Alfred and Doris Lees, directors. R.O.: 9 Joel Park Estate, Northwood Hills, Pinner.

A. S. SNOWDEN (HULL), LTD. (P.C.).—Capital £2,000. To acquire the business of a chemist carried on by Mary E. Snowden at 442 Anlaby Road, Hull. Mrs. Mary E. Snowden, director. R.O.: As above.

W. E. POWELL & Co., LTD. (P.C.).—Capital £5,000. To acquire the business of W. E. Powell & Co., manufacturing chemists. Reginald V. Watts and Alfred A. While, M.P.S., directors. R.O.: 3 Frith Road, Croydon.

WRIGHT, LAYMAN & UMNEY, LTD.—Mr. Ivan P. Sims, M.P.S., has been appointed a director.

THE BRITISH DRUG HOUSES, LTD.—Mr. Albert Faller has retired from his position as a director owing to pressure of other business and the need for frequent visits abroad.

ILFORD, LTD.—A resolution to be submitted to the annual meeting on January 1 proposes an increase in the company capital to £1,690,000 "in view of possible developments."

LEVER BROS. & UNILEVER, LTD.—Mr. H. Saunders, Middle Temple, has been appointed secretary of the company in succession to Mr. L. V. Fildes, who has been appointed an advisory director.

BAYER PRODUCTS, LTD.—Messrs. R. C. M. Edenborough and C. T. N. Wakely, B.Sc. have been appointed directors. For the past eighteen years they have been active in developing respectively the pharmaceutical and agricultural departments of the business.

BRITISH ALUMINIUM CO., LTD.—Mr. C. W. Lacey, C.B.E., B.Sc., A.R.I.C., general sales manager responsible for the sales division, has been appointed to the board of directors. Mr. E. A. Langham, who has recently returned from India, has taken up an appointment as sales manager in the sales division. Mr. A. W. Langham, who has been acting sales manager and responsible for the sales and sales planning departments, has now taken up his appointment as sales planning manager.

A. MILLAR & Co., LTD.—Directors' report and accounts for the year ended October 31, 1945, show that, after providing for a charges, profit, including £6,944 brought forward from last year, amounted to £15,125. An interim dividend was paid in June 1945 on the 5 per cent. preference shares, amounting to £937 (less income tax), a final dividend on the preference shares for the year ended October 31, 1945, has been declared, amounting to £937 (less income tax), leaving £13,250, out of which the directors recommend payment of a dividend on the ordinary shares of 6 per cent. (less income tax), amounting to £3,750, transfer to general reserve, £2,000; transfer to equalisation of dividend reserve, £382, carried forward, £7,118. The retiring directors, Lieutenant-Colonel R. N. Mills and Mr. J. W. Morgan, offer themselves for re-election.



## SOME ELEMENTS OF SUCCESS

by a Retired Pharmacist

It was my good fortune to inherit a retail business founded by my father in the early "80's" of the last century. What I had to do, therefore, was to continue the cultivation of the ground already prepared, and to keep up to date by adapting my business methods to changing conditions during a period of forty years or so of national and personal vicissitudes. I attribute the modest success I have achieved mainly to the fact that I had acquired a varied experience of pharmacy in several of its branches—retail, hospital, manufacturing, advertising—before settling down in business on my own account. Wiseacres would shake their heads at my frequent changes of occupation, and liken me to a butterfly flitting aimlessly from flower to flower; but a more appropriate analogy, I think, would have been to a worker bee industriously visiting first one kind of flower, then another, and coming back to the hive laden with rich store of nectar or with pollen-bags filled with golden dust that might be turned into daily bread. Advice from the old to the young is not often welcomed, but here is counsel that will not come amiss. To young pharmacists of both sexes I would say—give the natural restlessness of youth full play. It is not high wages you need in the formative years, but experience.

### Location of the Business

When the time does come to set up as proprietor the choice of district is very important, because the district largely determines the kind of business you are going to carry on. Do you wish to go in for high-class dispensing? Then your choice is limited, and you would do well to await the results of the negotiations concerning the new National Health Services. Do you prefer a mixed business, with the emphasis on veterinary, agricultural, and horticultural products, such as you find in a country town, with its busy market days? Or a city pharmacy with its window-appeal planned to attract passers-by? Or a suburban shop on some smart "Broadway," where mothers congregate with their prams, and your aim must be to build up a reputation as a family confidant? Are you a keen photographer, who would find plenty of congenial work at a popular seaside resort? Circumstances may not allow of much latitude in your selection of a trading site, but if you can pick and choose, look well

ahead. Your nomadic days are over; you are settling down. Many a man has failed because he has found himself in uncongenial surroundings, from which he has been unable to extricate himself.

If you are not quite ready, owing to lack of sufficient capital, to set up as a proprietor-pharmacist, useful knowledge may be gained by taking a post as a branch manager, and opening up a new pharmacy under the supervision of an experienced business man. When buying a business already established it is as well to bear in mind the financial help that may be obtained under the business purchase scheme of the National Pharmaceutical Union. It is usually an advantage to be yourself the owner of your business premises. You have security of tenure, and it is easy to arrange for a mortgage on the property to tide you over a crisis in your affairs if misfortune should come.

### The Premises

Success depends largely on the appearance of the shop. It must be suited to the neighbourhood, and to the type of customer you wish to attract. Small details, apparently unimportant, may be crucial. Is the pharmacy on the right side of the road? (There is always a good side and a bad side from the business point of view.) Is the door easy of access and conveniently placed, or is there an awkward step to act as a stumbling-block? Is the business carried on in adjoining shops likely to cause annoyance to customers? Does the window get more than its fair share of sunlight? In some positions the sun-blind cannot be used on many days of summer because of high winds.

Internal fittings should include, in addition to the usual showcases and shelving, one or more chairs for the convenience of customers, and two weighing-machines, one for babies and one for adults. Always try to look at the shop, both inside and out, from the customer's point of view. It is so easy to allow familiarity to develop a blind spot. Cultivate a critical habit of mind where your own pharmacy is concerned, and an observant one when you visit others. Sit down occasionally on the chairs you have provided for customers, and look round. You will probably get a shock: here a dirty showcard advertising some article that is now out of season; there a corner that has been missed by the broom.

Having made your pharmacy as bright and attractive as possible, and overcome, by an ingenious use of all available fittings, some of the impediments of post-war shortages, your next concern will be with running the business economically and efficiently. Here a close, unflinching attention to routine in small matters is the essential element of success. A "wants" book, with separate sections for drugs, patents, sundries and toilet preparations; a system of ordering which ensures that nothing of importance shall be missed; careful checking of invoices and incoming goods; regular return of empties; prompt payment of accounts so as to secure discounts—unless these matters receive your constant care you will disappoint customers, lose sales, and increase working expenses.

Do not overlook the fact that the prosperity of a business depends as much on suppliers as on customers. The trader who sends regular and reasonable orders, and pays his accounts when they fall due, will be well served by wholesalers and sundriesmen in time of difficulty and scarcity.

### Relations with Customers

The aim should be to build up confidence and goodwill. To achieve this aim, something more is necessary than supplying reliable products at reasonable prices. What is required is a right personal relationship with customers. Scrupulous fairness in all dealings, honest discharge of all obligations, unflinching courtesy irrespective of persons—these are the ideals to be aimed at, both at the serving-counter and in the dispensary. Promises should not be made unless they can certainly be carried out. While every effort should be made, for instance, to obtain goods not in stock, allowance should be made for the uncertainties of delivery. Customers are seldom remarkable for pertinacity. A few disappointments, a few rebuffs—"Sorry, it hasn't come yet"—and the customer is seen no more; while the chemist, it may be, is left with unsaleable goods on his hands.

However careful the business man is, complaints are sure to arise. They are always vexatious, but every complaint should be treated as if it were well founded, pending investigation. There is a temptation to show by one's manner that the dissatisfied customer is considered to be a nuisance; this should be resisted. Here is an opportunity, by tactful and sympathetic handling of the situation, to secure a permanent customer, and one, possibly, who will give a free advertisement by

recommending the shop to neighbours. A show of irritation, on the other hand, may set a tongue wagging that will do the business much harm.

One of the disquieting features of pharmacy is the friction that exists in many parts of the country between doctors and chemists. The pharmacist who lays himself out to cultivate better relations with local doctors and dentists is doing his profession a real service. True, the chemist has good ground for complaint: illegible writing of prescriptions; ignorance of incompatibilities on the part of prescribers; an imperfect knowledge of the requirements of the National Formulary; brusque replies when a request is made by telephone for elucidation of obscurities in a prescription—these are some of the difficulties he has to contend with in the course of the day's work. The doctor, too, no doubt has his list of charges against the pharmacist. Here again, friendly personal relations are the key to the problem. Considerations other than ethical are involved. The doctor or dentist who knows that he is sure of a welcome at the local pharmacy, that he can call in to write a prescription or to make an inquiry about some new pharmaceutical product, is a good business-bringer.

### What to Stock

The answer to the question "What shall I sell?" often is "any mortal thing that customers will buy." This may be a good answer in a village, where the chemist is expected to supply almost all the necessities of life except food and clothing; but in a town well provided with shops and stores the pharmacist must have a sales policy. The writer's advice, the fruit of experience is: adopt a policy suited to the neighbourhood, and the kind of customers you want to attract—and stick to it.

Do not sell junk (some chemists do!). If you are to succeed you must be honestly convinced of the value of the goods you are handling. Even some widely advertised lines cannot be sold with a clear conscience.

The pharmacist can never go wrong in packing as many of his own lines as possible—provided, of course, that the formulae are adequate and packs attractive. In every neighbourhood there is sure to be a demand for a cough mixture, a cold mixture, an indigestion mixture or tablet, an ointment, and a food for babies and invalids. I have also made a good income by making and selling health salt and baking powder, manufactured on the premises in a



ing machine. Cosmetics and toilet preparations, too, offer a wide scope.

The "one-man" business is an anachronism, besides putting an unnatural strain on the "one man." At least one assistant is necessary to a business as is the stock. This is not the place to talk of wages and working hours, but the first should be as generous as possible, and the second as important as are compatible with the convenience of customers and patients. Both wages and hours are regulated to a certain extent by local custom and by law. It would be a retrograde step to reduce the one or to tend the other. Speaking as one who has always kept two or three hobby-horses in the stable, I am a staunch upholder of adequate leisure. There are other interests in life besides pharmacy.

Assistants give more wholehearted service when they are put on a wages-and-commission basis. They should also be helped and encouraged to educate themselves, not only in

pharmaceutical matters but in commercial knowledge and display. A subscription to a trade journal and a periodical devoted to advertising is a good investment. A woman assistant at the ladies' and cosmetic counter is a very useful member of the staff; she can be trained to assist in buying toilet goods and in window dressing. Remember that many of the articles on sale at the toilet counter could be bought elsewhere.

There is little opportunity or necessity for local advertising in present conditions; but, with increasing supplies of goods and paper, and growing competition due to the cancellation of retail licensing, advertising will again become both possible and necessary. No hard-and-fast rules can be laid down, because local conditions vary so much, but I have found the following forms of advertising to bring good results: the local Press, circular letters by post, handbills distributed from door to door, calendar blotters, and parish magazines.

## TRIPLE JUBILEE

THREE brothers, Bob, Tom and Harry Elliott, all of whom have within recent weeks completed fifty years' service with Boots, Ltd., and all of whom have risen from errand boys to managers of important sections, were entertained to dinner at Nottingham on December 7, 1945, by Lord Trent (chairman of the company) and other members of the board. Mr. G. R. Elliott (Bob), the eldest, entered the service of Mr. Jesse Boot (first Lord Trent and founder of the organisation) as an errand boy at the one small shop in Goosegate, Nottingham, in 1881, at the age of ten. The business in those days employed only one assistant, a porter, and this small boy, in addition to the proprietor. In due course, Bob Elliott worked at the counter and handled herbs, drugs, patent medicines and sundries. At a later stage, he was transferred to the manufacturing department at Island Street, Nottingham, at a time when only seven or eight girls were employed there. As the firm grew, and more retail branches were opened, he served as

general assistant in a number of them, received training as a dispenser, and, when a large shop was opened in the centre of Nottingham, became dispenser there. In

1896 he was made controller of a section of the factory concerned with the manufacture of liquid preparations, of which he remained in charge for thirty-six years until he retired. He was succeeded by his brother Mr. J. T. Elliott, who had joined the firm in 1890 and served as "odd-jobs boy," "printers' devil" in the old

printing department, and stock-taker in the branches. The youngest of the three, Mr. G. H. Elliott (Harry), joined the business only in 1895, and, like the others, served in many sections before he

became the manager of one of the important sections of the great Beeston factory. He is now in charge of bulk stock at the warehouse. When they were entertained the company included many close colleagues, retired or still working, two retired directors of the company, and ten members of the executive committee.



Messrs. Bob, Tom, and Harry Elliott.

## PERSONALITIES

MR. F. H. ROLT has been appointed superintendent of the Metrology Division, National Physical Laboratory, as from April 1 next.

SIR ALEXANDER FLEMING, discoverer of penicillin, was on December 11, 1945, elected an Associate of the French Academy of Medicine.

MR. JAMES M. C. THOMPSON, M.A., B.Sc. (Aberdeen), D.Ph. (Oxon), has been appointed to a lectureship in the chemistry department, Aberdeen University.

MR. J. O'DRISCOLL, Ph.C., was among members of the staff of the Irish Red Cross Hospital, St. Lô, France, who left Dublin recently to take up their duties.

MR. EDGAR HARVEY JUDGE, M.P.S., and MRS. JUDGE, West Road, Bourne, Lincs, celebrated their diamond wedding anniversary on December 27, 1945.

DR. DAVEY, a biologist on the staff of Imperial Chemical Industries, Ltd., flew to Australia recently to study the results of experiments there with the new drug Paludrine. The formula of Paludrine, he said, which only Britain possessed, would be given to the world and made available to the public in 1947.

MR. J. WILLIAMS, who is shortly retiring from the position of works manager of the Castner Kellner alkali works, Runcorn, was on December 21, 1945, presented with a silver salver, silver punch bowl and volume containing the signature of 3,000 employees of the factory. Mr. Williams is a former Mayor of Widnes.

MESSRS. W. J. MEREDITH (Christie Hospital and Holt Radium Institute, Didbury, Manchester) and G. J. NEARY (Mount Vernon Hospital and Radium Institute, Northwood, Middlesex) have been jointly presented with the Röntgen award by the council of the British Institute of Radiology for a collaborative paper and others contributed separately.

MR. JACK HART, M.P.S., St. Sampsons, Guernsey, was recently elected a People's Deputy in the States of the island. Mr. Hart spent nine years in the Royal Navy as a young man, and afterwards served his time with his father before qualifying as a pharmacist. Subsequently he was branch manager for W. H. Fisk at Woolston, Southampton, for some years, then crossed the Channel to purchase the old-established pharmacy of Mr. A. L. Burgess in 1931.

DR. ARTHUR STOLL, vice-president of the board of administration of Sandoz, Ltd. Basle, Switzerland, has been awarded doctorate *honoris causa* of the Sorbonne University, Paris, France. The award was made on December 15, 1945. Dr. Stoll already doctor *honoris causa* of the universities of Basle and Zurich, Switzerland, and has been awarded the new distinction in recognition of his work, particularly in the preparation of pure glycosides and alkaloids.

MR. C. T. WHARTON, distribution manager for Thomas Kerfoot & Co., Ltd., manufacturing chemists, Bardsley Vale, nr. Ashtor under-Lyne, Lancs, has retired after fifty three years with the company. To mark the occasion he was presented with a gold watch and a radio set. Mr. Wharton, who is seventy years of age, joined the company at seventeen—when the works were situated in Chester Street, Manchester—three years before a disastrous fire, which brought about the move to Bardsley. He has been chiefly concerned with warehousing and distribution, and during his career has sent goods to every country in the world.

LIEUTENANT-COLONEL G. P. POLLITT, D.S.O., M.Sc., Ph.D., a director of Imperial Chemical Industries, Ltd., retired from the company on January 1. Distinguished as soldier, research chemist and farmer, he is best known as the creator of the great chemical works at Billingham-on-Tees. Colonel Pollitt started his career in the chemical department of Woolwich Arsenal in 1902. In 1903 he went as research chemist and manager to the high explosives department of the Kynoch works in Essex. In 1905 he joined the staff of Brunner, Mond & Co., Ltd. He was commissioned in November 1914, first in the Intelligence Corps, and then in the Special Branch, R.E. (Gas). Later he commanded the 6th and then the 11th Battalions, Lancashire Fusiliers. He was four times mentioned in dispatches, four times wounded, and awarded the D.S.O. with two bars. In 1920 he was appointed chairman of Synthetic Ammonia & Nitrates, Ltd., Billingham-on-Tees. In 1926 he joined the board of I.C.I., Ltd. He served as an executive director till 1934, when he relinquished the more active part of his duties to devote his energies to farming. In September 1939 Colonel Pollitt at once resumed his duties at I.C.I., and was made director in charge of special weapons, in which capacity he was responsible for co-ordinating research.



## NEWS FROM FRANCE

by a Paris Correspondent

LETTERS are being published in the French press from doctors protesting against the scarcity of supplies existing in the pharmacies. They point to an impressive tonnage of imported products and ask why it is that chemists are not receiving a fair supply, which can be passed on to the public. Apparently the responsible authorities have made no attempt to find a fair method of distribution, but are allocating almost everything to hospitals. This has resulted in small hospitals receiving quantities of scarce products, such as soft paraffin, alphanamides, morphine, etc., out of all proportion to their needs, whereas stocks lying useless in hospital dispensaries are urgently required outside. It is urged that some method should be found to secure release of such stocks and their reallocation. For example, it should be simple enough, it is claimed, for pharmaceutical organisations to draw up lists of the needs of chemists in different areas; this would ensure that the public received a minimum of urgent pharmaceutical products.

Thirty soap factories in Marseilles have been producing a soap of pre-war type since December 1, 1945, the quality being about 72 per cent. as good as pre-war. The "ersatz" soaps that have hitherto been used have had to incorporate all sorts of replacements for palm oil, copra, peanut oil, resins, etc., which were unobtainable. Remaining supplies of the inferior soaps will be sold off the ration. Monthly production at the Marseilles factories is now 2,500 tons of soap and 1,000 tons of detergents. The output is 30 per cent. of the pre-war figure.

### Perfumery Exhibition

Paul Poiret, a well-known French designer and creator of perfume fashions, was the inspiration for an exhibition held at the Marcel Rochas salons in Paris recently. One-hundred-and-eight years of perfume history is portrayed in a "Perfume Down the Ages" exhibition, which shows the growing influence of perfume in the creation of feminine charm since 1765. An impressive grey satin backcloth is the setting for gold baroque frames arranged over the stairway of the Rochas salon. All the perfumes created by Paris couturiers are set into the frames, with Poiret, as the first and greatest, given the place of honour. Miniatures of perfume bottles are displayed, small crystal examples being set against backgrounds of

flowers, rock-gardens, heather and moor landscapes. In the two salons which formed the exhibition, tiny wall windows showed books, yellow and aged, with old parchment and interesting lettering, open to show recipes of perfumed creams and ointments used by perfumers. Histories of Royal Court perfumers were also shown, together with manuals on beauty preparations, keys to make-up, and many precious recipes. Among other exhibits were interiors of eighteenth- and nineteenth-century boudoirs, complete with worked perfume bottles and beauty boxes.

### Effect of Franc Devaluation

French manufacturers of perfume are prepared to go all out in an attempt to re-establish French luxury goods and create a new world demand for their products. Now that the franc has been devalued, exports will naturally benefit from the fact that prices will be more in line with world values, and already the United States has hinted that the change is welcome, and that the country is ready for large quotas of perfume and other luxury goods. Naturally, the devaluation has not solved all difficulties, and although the accent in France is being laid on production, certain essential raw materials are still not available and will have to be imported when opportunity arises. In the meantime, perfumes manufactured will probably be confined to those having French-produced oils as bases. Bearing in mind the great difficulties yet to be overcome, such as supplies of coal, bottles, and wrapping and paper materials, it seems probable that manufacturers and designers will concentrate on small but exquisite containers. Already designs are being created and new names suggested.

### Perfumery Forum

A Franco-Allied Goodwill Committee recently sponsored a forum on French perfumes held at the Paris Chamber of Commerce, at which Allied soldiers, from G.I.'s to colonels, showed keen interest in perfume facts, from the suitability of perfumes to types of uses to the essential oils used in manufacturing processes. About 700 were present and each was given a small sample bottle of perfume. A short history of perfume was given by M. Marcel F. Labourdette (vice-chairman of the Committee).

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Lion brand razor stropers.  
La Victoire perfumes.  
Naurine paste. Espumantia.  
Hanoviol curative ointment.



# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

RETAILER — WHOLESALER — MANUFACTURER

circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied trades and Industries in Great Britain, Eire, the British Empire, and foreign countries

*Official organ of The Pharmaceutical Society of England, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Scotland and of other Chemists' Societies in the Empire*

DL. CXLV JANUARY 12, 1946 NO. 3440

## Back to London

THE London offices of THE CHEMIST AND DRUGGIST have remained open throughout the war despite severe damage to the premises by enemy action on two occasions. In 1939, as a precaution to ensure continuity of publication, arrangements were made for the printing to be done elsewhere in the event of an outbreak of war. Thus in August 1939 the printing and publishing of the weekly issues was transferred from London to Bath. On April 26, 1942, our Bath offices were totally destroyed and all records lost, and the printing works were considerably damaged by enemy action. The issues for May 1942 were printed and published at Frome, Somerset, with a return to Bath the following month, by which time the printers had made temporary repairs sufficient to enable them to carry on. This issue is the last to be printed and published in Bath, and we take this opportunity of expressing our appreciation of the helpful co-operation of the Bath printers—The Pitman Press—during the past six years.

Arrangements have now been completed for the printing and publishing of THE CHEMIST AND DRUGGIST to be done in London. Will subscribers and advertisers please note our Bath offices are now closed, and that all correspondence and inquiries should in future be addressed to the London offices, 28 Essex Street, Strand, London, W.C.2.

## Consumer Goods and the War

THE degree of shortage of consumer goods and services during the war years provides a convenient yardstick by means of which the magnitude of a country's war effort may be assessed. In a new official publication, "The Impact of the War on Civilian Consumption" (H.M. Stationery Office, 2s. 6d.), an attempt is made to examine the effect of the war on civilian consumption in the United Kingdom, the United States and Canada, with the obvious proviso that such measurements cannot represent the whole picture of consumers' sacrifices and still less all the sacrifices that war has entailed. Nevertheless the figures presented in the report will do much to contribute to a fuller understanding by each country of the others' circumstances and accomplishments.

The report covers a wide field of consumer goods and services, and the main conclusions reached must be studied in relation to one another in order to obtain a complete picture of the whole effect. Generally, however, it was found that the experience of the United Kingdom was markedly less favourable than that of the United States and Canada in almost every category of consumption. Labour stringency was the main reason why the United Kingdom experienced a 37 per cent. decrease in the case of "other personal effects," a miscellaneous category of expenditure including cosmetics, while in both Canada and the United States purchases of many of these goods continued to expand. A table showing the average calories per civilian per day, based on identical nutrient conversion factors, discloses that so far as food was concerned civilians in the United Kingdom received 2 per cent. less in 1944 than in the pre-war years, while those in the United States and Canada received 4 per cent. and 8 per cent. more, respectively. All three countries maintained or improved their position in regard to vitamins and minerals.

Between the years 1935 and 1943 the annual *per capita* purchases of toilet articles and preparations in the United Kingdom decreased by 25 per cent., whereas in the United States an increase of 75 per cent. is shown for the period 1939-43 and 40 per cent. on the basis of 1941-43. United

Kingdom figures for drugs, medicines and optical goods, however, show a 20 per cent. increase during the period 1935-43, while the figures for the United States are comparable with those for toilet articles. The pressure of surplus purchasing power is given as one of the factors accounting for the rise in United Kingdom purchases of drugs and medicines. The Report contains many valuable statistical appendices showing, *inter alia*, the valuation of purchases of all goods and services at pre-war prices and the compilation of *per capita* figures.

## November Exports Decline

A DECLINE in export values, attributed by the Board of Trade to the docks strike, is disclosed by the summary figures for Britain's overseas trade during November 1945 (H.M. Stationery Office, price two-pence). Shipments of relief goods recorded in November were also stated to be below normal levels. Compared with the average value of exports (including re-exports) for the ten months of 1945, the November figure, at £34 million, shows little significant change. It is slightly higher than the figure for the corresponding month of 1944 and, of course, considerably in excess of that for 1943. A fall is also recorded in imports

during the month from £121.3 million in November 1944 to £90.2 million in November 1945.

Such detailed figures as are available in the summary report disclose the satisfactory position of the class "chemicals, drugs, dyes and colours" which has again demonstrated its impressive contribution to the export effort. In fact, during the month under review, the group showed the highest value of exports, maintaining its average of £3.1 million for earlier months. The export value of chemicals during November 1945 exceeded the monthly average for 1938 by £1,231,284.

On the import side of the accounts a decline of £3.8 million from the average figure for the ten months of the year is accounted for by smaller imports of manufactured goods, which fell from £27.1 million to £14.4 million. A considerable expansion, however, is recorded in raw materials, the figures for which rose from £23.9 million to £30.4 million. Oilseeds, oils, etc., also showed major increases. The chemical group of imports, at £1,049,836 showed a sharp fall from the corresponding month of the previous year and a smaller decline by comparison with the average figure for 1938.

## ACETONE BODIES IN URINE

IN the normal course of things when fats are oxidised in the body, acetoacetic acid ( $\text{CH}_3\text{COCH}_2\text{COOH}$ ) is formed as an intermediate product. This is then oxidised to carbon dioxide and water. For complete oxidation of fats, the simultaneous combustion of a proportional amount of glucose seems to be necessary. In diabetes, failure to oxidise glucose is associated with incomplete oxidation of fats; acetoacetic acid accumulates in the body and is excreted in the urine. The condition is called acetonuria or ketonuria. Acetoacetic acid is unstable in water and may be reduced to  $\beta$ -hydroxybutyric acid ( $\text{CH}_3\text{CHOHCH}_2\text{COOH}$ ) or decomposed into acetone ( $\text{CH}_3\text{COCH}_3$ ) with evolution of carbon dioxide. All three "acetone bodies" have therefore the same significance and, as they always occur together, a test is usually made for acetone only, as acetoacetic acid always forms acetone in water, and there is no simple test for  $\beta$ -hydroxybutyric acid. The Rothera test which is generally used may

be much simplified by using tablets, as suggested by Rubinovitch ("Canadian Medical Association Journal," 1945. I. 602) as follows:—

Sodium nitroprusside .. ..	1.5
Sodium carbonate (anhydrous) ..	28.5
Ammonium sulphate .. ..	45.0
Lactose .. ..	25.0

Make a  $\frac{3}{8}$ -in. tablet; it is stable and keeps well. When the tablet is added to a test-tube of urine containing acetone, a definite permanganate discoloration develops on the under surface of the tablet within one to three minutes, the intensity depending on the amount of acetone bodies present; the upper surface of the tablet remains white. The tablets may also be made with a depression in one side and one drop of urine placed in this depression. If acetone bodies are present, the centre of the tablet becomes permanganate-coloured in one to three minutes, and the rest of the tablet remains white. The method renders the use of a test-tube unnecessary.



## SCIENCE AND RECONSTRUCTION

Abstract of an Address given by the Chairman of the Advisory Committee on Atomic Energy (Sir John Anderson) to the Manchester Joint Research Council

My interest in science dates back to the early years of this century when, having secured a scholarship of sufficient value to enable me to devote a year or two to further study abroad, I went to Germany to engage in post-graduate research in physical chemistry. The subject allotted to me was investigation of the radioactive properties of uranium—a curious coincidence in view of certain activities in which I have recently been engaged.

### Scientists' Prospects of Promotion

I had previously, while an undergraduate in Edinburgh, become concerned about the economic prospects for specialists in natural science. I had noticed, for example, that, apart from schoolmastering and the limited establishments of the science departments in the Universities, there seemed to be no demand in this country for chemists. Affairs were still much as Lavoisier had found them when, condemned to death and being disposed to protest, he was informed boldly that the world had no need for chemists. A War Office assessment of the value of trained chemists was expressed in 1905 in the offer of a commencing salary of £130 a year. The only industrial openings one heard of were occasional vacancies in breweries, and those usually went to well-trained specialists from Denmark. The fact is that, at that time, the staple industries of the country still relied on the traditional methods that had served them well before international competition became acute.

I have given you this fragment of autobiography because it enables me to bring out two facts that are not without interest in relation to the subject of my address. The first is that a good grounding in natural science can be a passport to the higher civil service, equally with the more usual training in the humanities, or in the history schools. The second, as exemplified in my own case, is that public administration does provide scope, apart from the professional or specialist grades, for men with a scientific training.

### Restoring Britain's Economy

I come now to the main subject on which I wish to speak to you—"Science in Relation to Reconstruction." I share what I believe is the generally accepted view that

the restoration of Britain's economic life, and even the maintenance of the living standards established pre-war, is dependent on building up industries to a level of efficiency higher than ever before attained. This country has, to a large extent, lost the competitive advantage which her mineral resources and sea power gave her in the halcyon days of last century. It is a further disadvantage that the exports which are necessary in order to pay for vital supplies of food and raw materials are so much greater in relation to the corresponding home demand than in the case of either the U.S.A. or the U.S.S.R. It is on the quality of her products that Britain must rely to overcome all disadvantages, and to this end the finest possible bodies of technicians must be built up and the fullest use made of all new developments to which science can point the way. There is no reason to doubt the country's ability to do this if it is known where the obstacles are and if determination is shown to remove them.

### British Scientific Achievements

It has long been the fashion to decry British achievements in the field of applied science, though in pure science they are, of course, universally recognised to have been outstanding. This has been in part, no doubt, a pose, exemplifying a well-known habit of self-depreciation. But, in my view Britain has, in fact, lagged behind, and for two main reasons—partly because of the dead hand of tradition in the older industries and partly because of prejudice on the part of scientists themselves. The profit motive was suspect in the higher academic circles before it became an object of attack in politics. The author of one of the most fundamental and, as it turned out, most fruitful discoveries in electrical science plumed himself on the fact that it could be of no possible use. Scientists must get rid, and are getting rid, of all such nonsense. Things were never so bad, however, as is sometimes made out. It is true that, apart from certain traditional items such as acid and alkali production, chloroform, a few alkaloids, and a narrow range of dyestuffs, there was no chemical industry in Britain at the outbreak of the 1914-18 war. Much was done during that war to overcome the initial handicap, and what has been achieved since—up to the out-

break of the recent war and during its progress—is full of encouragement. That was only to be expected in the case of the great new electrical and chemical industries that had their foundations in scientific discoveries, but the older industries can also show many notable instances of a fresh outlook. For example, in the steel and non-ferrous metal industries new processes have been developed and new materials produced for the first time, including many types of alloy steel and great quantities of magnesium metal from sea water.

### Scientific and Industrial Co-operation

In television Britain undoubtedly led the world before the war and is probably still ahead. In the various applications of radiolocation, founded upon investigations originally conducted under the Radio Research Board of the Department of Scientific and Industrial Research, she is in almost every instance well ahead of all competitors. That is a magnificent example of co-operation between science and industry. All aeroplanes are fitted with transparent non-splintering plastic produced in this country, and, during the war, the chemical industry produced also polythene, the finest known insulator, without which some of the most important applications of radiolocation would have been impossible. An insecticide (Gammexane), a range of selective weed-killers, linked with the discovery of the hormones produced in the growing tips of plants—which may well mean a revolution in agricultural methods—a synthetic adhesive, heat, water and acid-proof, are other achievements of a progressive and virile chemical industry.

### Successfully Applied Research

In the manufacture of scientific instruments, where, during the first world war, Britain lagged sadly behind, there is the same story of technical skill and successfully applied research. The illustrations show the high technical efficiency of British industries and their readiness to appreciate and develop new ideas born in research laboratories. I give them now merely to establish that the prognosis in this matter of the application of science in industry during the period of reconstruction is extremely favourable. If that is accepted, what is still needed to make the most of the country's resources, actual and potential, and of her opportunities? This is the kernel of the problem, and I will deal with it under the three heads of personnel, finance, and organisation.

### Personnel Deficiency

A report by Sir Ernest Simon drew attention to a remarkable discrepancy between the numbers of scientifically trained personnel turned out by the Universities and other teaching establishments in the U.S.A. and in this country respectively. Allowing, as of course one must, for the difference in total population Britain comes badly out of the comparison. No doubt to some extent quality make up for lack of numbers, but the fact seems indisputable that the output has, in the past, been far below what the real needs of the country demand. Clearly the deficiency whatever it may be—and some further investigations seem called for under that head—cannot be made good all at once. The first step must be to enlarge the capacity of the teaching institutions, to get more scientists of high quality back from war service to the teaching staffs of the Universities, and then further to expand their numbers in the appropriate branches and perhaps to extend classroom and laboratory accommodation. This will require some order of priority, and I have little doubt that the Lord President of the Council was right when he said that the needs of industry must at first give way to some extent to those of the Universities. The necessary steps must be taken to increase the flow of students of the right type, with the best kind of general educational background. Universities, industrial firms and all other potential employers, including the Government, should make, and make known, their plans, indicating the types and numbers of trained men and women they require, the terms they offer and the kind of organisation they propose. Such information properly collated, will be an indispensable basis for the work of the Committee of scientific priorities whose formation was announced in Parliament recently, and will also provide the necessary material for an approach to headmasters and through them, to parents. As a first step one cannot go wrong in urging that every thing possible should be done to hasten the release of trained scientists and of partly-trained and untrained students from the various forms of war service.

### Financing Research and Development

I come now to a matter which I would rank as high in importance as that of personnel: finance. Here I may modestly claim to have myself blazed a trail. Broadly speaking, research and development must



financed in one or more of the following ways:—

By industrialists, either in their own laboratories or through industrial research associations, or through grants to Universities and other scientific institutions;

By Universities and other scientific institutions out of their own resources;

By Government, through research institutions of its own, or through grants to industrial research associations, to individual workers, or to Universities.

### Basis of Grants

As Lord President of the Council and as Chancellor of the Exchequer, I had occasion to consider all these matters. While I was still Lord President, the basis of grants to research associations was reviewed by the Advisory Council of the Department of Scientific and Industrial Research and new arrangements have been made which present a substantial improvement on the old. Whereas the Department used to work on the principle that a Government grant would be available only until the association could be made self-supporting, the principle of a permanent grant is now accepted, and the basis of calculation has been liberalised. This marks a fundamental change in outlook. Government grants to Universities are made through and on the recommendation of the University Grants Committee, which has been reconstituted to bring it into closer touch with the Universities. About a year ago, I met the Committee of Vice-chancellors and fore-shadowed a substantially increased rate of grant, which has now been voted by Parliament for the current year. In addressing them I referred, in particular, to the need for a revision of University salaries, and I made it clear that, for the first time this year, and in future, capital expenditure would be taken into account in assessing grants. It is left to each University to allocate its grant as it thinks fit, subject, of course, to any general understanding between the University and the Committee. Grants earmarked for specific researches are made not by the Committee but by the Department of Scientific and Industrial Research, with the approval of the Treasury. The department also administers a scheme of maintenance grants for post-graduate students to allow them to be trained in methods of research.

### Contributions from Industry

Expenditure by industrialists is assisted not by direct grant, but by a system of tax relief. Up to this year maintenance expendi-

ture in connexion with research was allowed as a deduction from earnings, in accordance with the usual principle, but no allowance was made in respect of expenditure of a capital nature. Under my Budget proposals of last year, to which statutory effect has now been given, all research expenditure in connexion with any particular industrial undertaking is allowed as a deduction from earnings before assessment of tax. This applies to all expenditure on buildings, plant and equipment and represents a clear departure from the hitherto sacred principle that untaxed income must not be used to produce additions to capital assets. The same principle is applied to contributions by industrial firms to research associations or Universities for research. The value, and of course the cost to the taxpayer, of such relief can be gathered from the contributions of this character that have already been made. For example, Imperial Chemical Industries, Ltd., have given eighty Fellowships of an average of £600 a year each for research in physics and chemistry, and sciences derived therefrom, including engineering and chemotherapy. There are no restrictions or conditions attached to these Fellowships. The Shell group has made a gift of £435,000 to Cambridge University for a Department and Chair of Chemical Engineering, together with a yearly grant of £2,500 for scholarships, and Courtaulds, Ltd., have given £118,000 for a similar purpose to that of the Imperial College of Science. I do not doubt that, as time goes on, many other similar grants will be made, thus adding greatly to the funds available for fundamental research. Of the funds devoted by the Government to research in their own institutions, little more need be said except that experience goes to show that there are certain forms of fundamental research which it will probably be agreed can only be satisfactorily developed in this way.

There seems to be little doubt that the expenditure directly incurred by the Government on research will increase substantially as time goes on. So far as financial aid is concerned, there is now a framework within which all that is required can be secured.

### Organisation of Resources

When I come to my third head—organisation—I have no doubt that I shall be dealing with a topic of special interest to the Council I am addressing. The efficient use of resources, limited as they must be for a long time to come, demands the best possible organisation. Without seeking to

dogmatise in any way, I would suggest the following :—

(a) There should be recognised standards of remuneration.

(b) Conditions of service should be such as to facilitate interchange between establishment and establishment, and between one type of service and another. A uniform pensions scheme, such as the Federated Universities Superannuation Scheme, should help to this end.

(c) Free exchange of information and ideas should be encouraged.

(d) Without encouraging teaching institutions to undertake agency or contract work, research in applied science in such institutions should not be discouraged.

(e) Similarly, the advantage of allowing a certain amount of fundamental research in industrial research establishments should be recognised. It should be remembered that it is to research, so conducted, that the discovery of the gas-filled lamp, which has meant an enormous annual saving in consumption of electricity, is due.

(f) To prevent wasteful overlapping, the various industrial associations should establish special committees to discuss long-term programmes of research with representatives of the Universities and the Government research organisations. In this connexion the question as to what fundamental researches can most profitably be conducted in Government establishments, or centrally in selected institutions, should be considered.

These are only suggestions which I hope may be thought worthy of further consideration, but, before leaving this part of the subject, in which my aim has been to indicate a number of questions which I think such a Council as yours might usefully explore, particularly in their regional aspects, it is right that I should say a word about the question of organisation, so far as the arrangements of the Central Government are concerned. I would unhesitatingly reject the suggestion, much canvassed of late, that there should be a Minister of Science. If it is believed, as it must be, that science enters into nearly every branch of activity, there can be hardly a Minister or a Department that is not interested in some way in the applications of science, and to add a super-Minister with general responsibilities and executive functions in relation to science could only lead to confusion.

### The Minister Responsible

But that does not mean that I should be content with things as they are. We now have, in the Lord President, a Minister who is directly responsible for the general, as distinct from the departmental, scientific

activities of the Government—the Department of Scientific and Industrial Research, the Medical Research Council, and the Agricultural Research Council. If a similar Council were set up for the social sciences, he would no doubt take that under his wing also. He has, during the war, been the channel of communication between the Scientific Advisory Committee and the Cabinet. I should like to see three changes made. First, I would have the Lord President formally recognised as the Minister responsible for dealing, on behalf of the Cabinet, and subject, where necessary, reference to the Cabinet, with all general scientific questions in which the Government is concerned, including problems of organisation, arrangements for Commonwealth or international conferences, and so forth. Secondly, I would continue the Scientific Advisory Committee, which was a special war instrument (on a peace-time footing, with some extension of personnel as the principal adviser of the Lord President and the Cabinet in scientific matters). Thirdly, I would create a special section of the Cabinet Secretariat, under an officer of appropriate qualifications and seniority to assist the Lord President in the discharge of his new responsibilities. I believe, under arrangements such as these, the organisation of the Central Government would be suitably geared into the general complex of scientific organisations throughout the country.

### Investigations on Atomic Energy

Now I expect you would like me to say something about the position of investigations into the use of atomic energy, and particularly about the prospects of industrial use. As the result of a quite prodigious concentration of effort, results have been achieved in a few years which, in ordinary circumstances, would have taken perhaps ten times as long, or even longer. The work that has been done, of which I have some detailed knowledge, points clearly enough to certain lines of development in the future. So far as industrial applications are concerned, it is certain that nothing has been discovered to justify the expectation that the energy released by an atomic explosion could be used directly as a source of industrial power, as, for example, the explosion of gases is used in an internal combustion engine, or a gas turbine, or in certain forms of rocket. The only method which existing knowledge suggests as practicable depends upon the conversion into heat of the energy released by a controlled process of nuclear



sion. The first problem is to get the heat into a convertible form. This means a high temperature and involves the necessity for efficient controls and special measures to prevent corrosion of the metallic components and rapid disintegration of the whole system.

The other major problem arises in connexion with the intense and dangerous radiation by which the nuclear reaction is attended. This means elaborate shielding devices and a complete system of remote control. It would be absurd to suppose that these and other difficulties will not be overcome in time, and there is always the possibility of some fundamental new discovery completely changing the character of the problem, but the best opinion I can offer—and it is not based on my own conclusion but on the conclusions of those in whose judgment I can most confidently rely—is that it will be many years before nuclear energy comes on to the market, for any but the most limited and specialised purposes, in competition with existing sources of power.

Nevertheless, the ultimate possibilities are such that it is clearly incumbent upon Britain as a nation to devote all the resources that can be spared to further researches in this field. There will, I imagine, be little doubt in your minds, in the light of what I have said, that the Central Government must, for the time being at any rate, take a leading part in the organisation of such researches. Nevertheless, before leaving this topic, with which I can only deal sketchily, I must stress the fact that these recent discoveries open up an enormous new field of scientific work, and should give tremendous impetus to research by physicists, chemists and engineers. Indeed, the matter goes much further, for the devices that are employed to produce the new element plutonium provide a ready means of procuring a vast range of new radioactive substances, including radioactive forms of common elements used in medicine. For example, radio-phosphorus, radio-iron, radio-sodium, and many other things can now be administered with the normal substance in proportions too small to be harmful, and their radioactive properties can be used to determine the exact behaviour of the particular therapeutic or nutrient agent in the human or animal organism. It does not require much knowledge, or much imagination, to realise what a revolution this may bring into medical science. In plant and animal physiology it may be equally important. There are

also now available many alternatives to radium which may be both much less expensive and more manageable in radiotherapy. Thus, what may prove to be an uncovenanted benefit of inestimable value accrues to humanity as a by-product of the search for further means of destruction—proving again the truth of the saying that science often bestows her boons where no one planned.

## RECENT RESEARCH

### Sulphonamide-gelatin Burn Dressing.—

A formula is given by Flack and others ("Journal of the American Pharmaceutical Association," XXXIV. 187) for a dressing for burns embodying the advantages of a preformed film without some of its previously held disadvantages. Thorough clinical valuation was not carried out, but in three sets of experimental burns the results were claimed to be superior to those resulting from the use of a sulphonamide film dressing. The formula is:—

Sodium sulphadiazine .. ..	25
Pharmagel B .. ..	50
Sulphadiazine .. ..	45
A-3 water .. ..	100

Pharmagel B is an American proprietary preparation, presumably of the nature of a purified gelatin. A-3 water is distilled water containing 0.52 gm. methyl *p*-hydroxybenzoate and 0.28 gm. propyl *p*-hydroxybenzoate per litre to prevent mould growth.

### Nutritional Value of Canned Foods.—

Controlled canning is reported on by Gooden and Thomson in the "British Medical Journal" (1945. II. 538), and adjudged one of the most satisfactory methods of preserving foods. Flavour, colour and texture are maintained; no chemicals have to be added; no special equipment is needed for storing the final product, and the housewife has no preparation to carry out beyond re-heating. Experiments on successive generations of rats showed that fresh and canned foods were comparable in all respects (i.e. in their effect on growth, breeding and composition of the body as a whole). One important food constituent (ascorbic acid) was not covered by the investigation, but an earlier writer showed that the loss of ascorbic acid was small, both from the actual canning process and in subsequent storage, because of the low oxygen content of the sealed container. Other workers have reached similar results with other vitamins.

# DIAGNOSIS OF MALARIA FROM BLOOD SMEARS

by C. B. Holliday, M.P.S.

**D**URING the next few years there will almost certainly be an increase of malaria in Great Britain, mainly due to relapses in ex-Service men who have returned from endemic areas overseas. The main type will no doubt be benign tertian malaria, with malignant tertian and quartan fevers less common. Although the condition is easily recognisable clinically, microscopic confirmation is recommended. In this work the pharmacist can help by providing the doctor with a quick and convenient source of confirmation.

## Apparatus and Methods

In most cases in which a microscopic diagnosis is asked for, the doctor supplies a smear that he has already prepared. It is desirable, however, that the pharmacist understands the method adopted. Two glass slides are completely freed from grease by boiling for twenty minutes in 10 per cent. chromic acid solution. They are then washed and kept in spirit until required. Immediately before use they are dried and polished with a clean handkerchief. The patient's finger, or the lobe of his ear, is pricked with a sterile needle after the surface fat has been removed with spirit. Failure to de-fat is a frequent cause of hæmolysis and clubbing together of the corpuscles. The drop of blood so produced is applied to the end of one of the slides; on this drop the edge of the second slide is placed and kept at an angle of  $45^\circ$  but without pressure. The blood quickly spreads into a thin film by drawing the second slide over the whole of the first, which is kept steady by holding it down firmly on a solid surface such as a table top. The smear is dried by waving the slide rapidly in the air.

In making a thick film a drop of blood is placed in the centre of a slide and spread out by means of a sterile needle. It is a mistake to make the smears too thick—it must be easy to see through them. Thick films are de hæmoglobinised before staining by placing them in distilled water until they are decolorised.

## Staining the Blood Film

Leishman's stain consists of a solution of alkaline methylene blue and eosin in pure acetone-free methyl alcohol. Its action depends on interaction between the two dyes. The undiluted stain is poured over the whole surface of the slide and allowed to act for half to one minute. Then double

the amount of distilled water is added and well mixed by means of a pipette. It is left for ten minutes, washed gently with distilled water until the film appears bright pink, and allowed to drain and dry in the air. The technique is suitable for both thin and de hæmoglobinised thick films. Leishman's stain acts as follows: Red blood cell—transparent bluish-purple. Nuclei of leucocytes—shades of violet. Blood platelets—purple. Cytoplasm of malaria parasites—bright blue. Chromatin—red.

Giemsa stain is similar to Leishman's and acts in a similar way. As it is a water solution of the dyes, however, the thin smear must be fixed with methyl alcohol before staining with diluted Giemsa stain 1-5. Thick films may be de hæmoglobinised by immersing them in distilled water containing the stain, diluted about 1 in 10. In both examples staining takes twenty minutes to half an hour.

Field's stain is a modern stain which is easy to use and gives excellent results. There are two solutions, Field's stain A, which contains methylene blue, azure I, disodium hydrogen phosphate and potassium dihydrogen phosphate in distilled water, and Field's stain B, which consists of eosin, disodium hydrogen phosphate and potassium dihydrogen phosphate in distilled water. To stain the blood film it is dipped into stain A for two seconds, washed well with water, dipped into stain B for two seconds, subsequently being again washed, allowed to drain and dried in the air. Only the leucocytes and malaria parasites are stained by Field's method.

## What to Look For

The stained slide is examined under a  $\frac{1}{2}$ -in. oil-immersion lens, and great patience and care are required. The parasite may be present as (a) the sexual form—or gametocyte—which is spherical in benign tertian (B.T.) and crescent-shaped in malignant tertian (M.T.) malaria, or (b) the asexual form—or sporozoite—which, passing into the blood from the salivary glands of the mosquito, enters the red blood cells. Here sporozoites enlarge until they eventually divide into many mesozoites which are poured into the blood stream by the rupturing of the cell envelope. They then infect other cells and continue the process. Some, however, become sexually differentiated and form gametocytes. A diagnosis of malaria is thus indicated by:—



(i) Spherical or crescent-shaped gametocytes which are stained blue. The distended cell may or may not be seen.

(ii) Small ring forms in the red cells.

(iii) Small black specks in the corpuscles the sporozoites—which occasionally may be seen about to enter the blood stream.

(iv) The red cells may be enlarged and distended, and in benign tertiary malaria may show stippling by the so-called Schüffner's dots—not seen in the parasite.

#### Differentiation Between M.T. and B.T.

(i) In B.T. the gametocytes are spherical, malignant tertiary crescent-shaped.

(ii) In B.T. Schüffner's dots may be seen.

(iii) The number of schizonts in B.T. is fifteen to twenty-six; in M.T., eight to thirty-two.

(iv) In B.T. the red cells take on a noticeable pallor.

There is another form of malaria—quartan malaria—which will probably be less common than M.T. or B.T.; details of this form may be obtained from any textbook of tropical diseases. The examination of blood cells for the malaria parasite needs considerable practice and much patience. Careful search is necessary to discover the various forms described.

## PHOTOGRAPHIC EQUIPMENT QUESTIONNAIRE

WITH the object of giving guidance to manufacturers on photographers' current requirements, the Institute of British Photographers, 49 Gordon Square, London, W.C.1, is asking its members to complete questionnaire on the subject. The inquiry covers the whole range of professional equipment and material, and is addressed to photographers in all branches of photography, including portraiture, commercial, industrial, Press, advertising, educational, medical, scientific, and colour. Anyone in the profession who thinks he may have useful suggestions to offer on the design of post-war equipment and materials is invited to apply to the secretary of the Institute (Telephone: Euston 3143-44), when a questionnaire form will be sent to him. The following examples give an indication of the form of the questionnaire.

In what branches of photography are you principally engaged?—

Portraiture	Commercial	Industrial
Press	Advertising	Education
Medical	Scientific	Colour

#### CAMERA STAND FOR OUTDOOR WORK

(a) Maximum height of camera platform? .....

(b) Minimum height of camera platform? .....

Should a tilting device up to 90° be incorporated in the head (for vertical photography)? .....

Do you favour a tripod made of wood or metal alloy? .....

Would you like—(a) Single-column type which has limited adjustment for uneven ground but cannot slip—or (b) Three-legged type which can be used in awkward places. If (b) would you incorporate both rubber and steel points (removable)?

(a).....  
(b).....

ENLARGERS.—The following does not apply to enlargers for miniature negatives.

What is the maximum size negative you wish the enlarger to take?

(a) For portraiture.....

(b) For commercial work.....

Do you prefer a vertical or horizontal enlarger? .....

Do you prefer:

(a) Automatic focusing? .....

(b) Automatic focusing with fine adjustment? .....

(c) Semi-automatic (uncoupled)? .....

Do you prefer condenser or diffused light? .....

Which lighting system?

Mercury-vapour, quartz tube or tungsten ("half-watt"). State which.....

Would you prefer (at extra cost) interchangeable lamp houses, giving choice of illuminant and condenser or diffused light? .....

What is the maximum times enlargement you require? .....

Do you require the enlarger also to reduce? .....

If so, what is the maximum times reduction you require? .....

Do you consider desirable a tilting negative carrier (for correcting verticals)? .....

Do you require a masking device on the negative carrier? .....

In the absence of clicking lens stops, do you favour boldly marked stops, illuminated from the lamp house or similar device? .....

Other questions deal with studio cameras and stands, paper holders, printing room and dark room, measures, thermometers, dry mounting press, flash bulbs, lenses, lens caps, and sensitised material. Return of the questionnaire is asked for by January 14.

## MACHINERY AND PLANT NOTES

### Draught Gauges for Steam Boilers

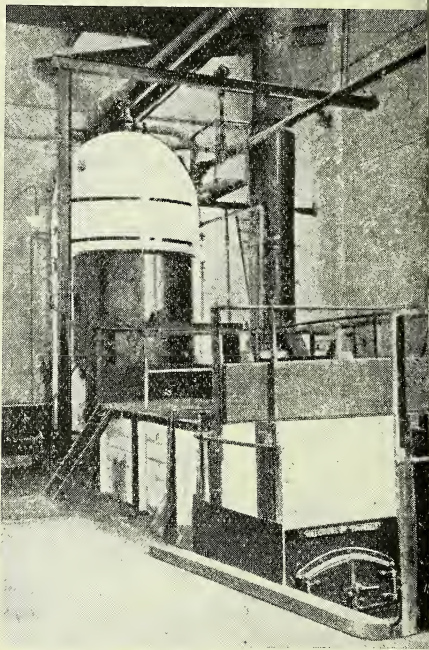
THE vital importance of fuel saving emphasises the fact that it is impossible to obtain the most economical results with steam or hot-water boiler-heating plant, even of the smallest size, without some methods of scientific control. One of the simplest but most essential instruments is the draught gauge, with draught indicated by difference of level of liquid expressed as in. w.g. (water gauge). Ordinary U-tubes are not very sensitive, but the Arkon inclined gauge made by Walker, Crossweller & Co., Ltd., Cheltenham, reads easily to  $\frac{1}{100}$  in. w.g. In principle this is a glass U-tube, with one short vertical arm and one long inclined arm, the liquid being coloured red and operating in front of an easily readable white-enamel scale, with prominent divisions and figures in black, including a screw for zero setting. The instrument is available in portable and fixed wall types.

### Electrically-heated Steam Boilers

FOR many small installations an electrically-heated steam boiler, especially on the electrode principle, using alternating current, has advantages over gas, liquid, and solid-fuel firing. Well-known specialists in this type of plant are Bastian & Allen, Ltd., 11 Bedford Square, London, W.C.1, who make electrode steam and hot-water boilers, electric resistance boilers, heat storage systems, air heaters and superheaters, as well as domestic and industrial water heaters. The electrode vertical and cylindrical steam boilers of solid-drawn steel are available in standard sizes within the range of 25-1,000 kW., taking A/C mains. They evaporate 75-3,000 lb. water hourly. Approximately the performance figure averages 3 lb. water per kilowatt-hour, varying slightly within the range of, say, 2.85-3.30 lb., according to inlet temperature of feed-water and steam pressure. Working pressure is up to 120 lb. per sq. in. gauge (250 lb. test pressure), whilst almost completely automatic operation is given. A complete equipment of mountings and auxiliaries is provided, and the feed pump is of the single-acting ram type. Operation necessitates merely the use of a starting or stopping switch and regulating handle for the steam pressure. Advantages include: no labour, a high thermal efficiency, small size and weight, extreme flexibility, and safe ty.

### Efficient Utilisation of Refuse

EVEN under optimum conditions of salvage of material in industry (string, paper, cardboard, sacking and straw) there remains considerable amount of combustible refuse including sawdust, shavings, ends and pieces, waste and broken wood, sweeping



Standard brick-built destructor operating vertical steam boiler. (Meldrums, Ltd.)

and mixed refuse from kitchens. The proper method of disposal, in many establishments, is to use a separate destructor of the right type, giving efficient combustion and allowing of utilisation of the heat for the provision of hot water or steam. The standard steel case industrial type destructor of Meldrums, Ltd., Timperley, nr. Manchester, which is widely used all over the world for almost every type of material, is available in twelve standard sizes, burning from 60 lb. to 30 cwt. of mixed material hourly. The destructors consist in principle of a neat rectangular steel casing, lined internally with firebrick. Suitable types of hot-water or steam boiler are also supplied to operate along with the destructor.



## OVERSEAS TRADE NEWS

**Canadian Drug Exports to Cuba.**—Drugs and pharmaceutical products to the value \$63,068 Canadian dollars were exported from Canada to Cuba during 1943, compared with \$55,492 Canadian dollars in the previous year.

**Curaçao's Pharmaceutical Needs.**—A large demand for pharmaceutical products exists in Curaçao. During the war most requirements for pharmaceuticals and medicines were met by the United States because other countries lacked shipping facilities. Already, however, several are again exporting to the Dutch West Indies, some at lower prices than those quoted by the United States.

**U.S. Vaporising Units in Production.**—A New York message states that new vaporising units are now in production in the United States. These units release into the air a minute non-toxic quantity of triethylene glycol, and may be operated from any standard electric point. The home model is about the size of a small table radio, and will be on the market in a few months at a cost below \$50.

**Costa Rica Pharmaceutical Market.**—Imports of drugs and medicinal products into Costa Rica, 414,000 kilos in 1938, increased to a record figure of 1,000,000 kilos in 1942, declining to 800,000 in 1943. Figures for 1944 and 1945 are not available but it is believed that at present about 84 per cent. of imports are met by the United States, 9 per cent. by the United Kingdom and about 7 per cent. by Mexico and Argentina.

**U.S. Phosphorus Production.**—The Victor Chemical Works is building the largest electric furnace plant in the United States to make phosphorus. The initial construction will, it is expected, cost more than \$2 million, and plans call for quadrupling plant capacity when demand for phosphorus and phosphate products warrants this step. The company already operates a large electric furnace phosphorus plant in Mount Pleasant, Tennessee, which is one of the three plants making all elemental phosphorus in the country. Important progress has been made in the use of phosphorus, and a number of new products will be available to the industry when new plants are finished. One of the most important new markets is in soaps to increase cleansing properties and to soften hard water. Large amounts of phosphate compounds are also used as plasticisers.

**Greek Olive Oil Crop.**—The 1945 output of olive oil in Greece is estimated to reach 100,000 tons. Reuter reports that the Commercial Attaché of the American Embassy has called on the Minister of National Economy in Athens to announce his Government's decision to exchange 10,000 tons of seed oil for refined olive oil produced in the Mediterranean areas. It was made clear that this exchange would be made on the basis of one oke of seed oil for one oke of olive oil. In addition the United States will pay \$2.30 for each gallon of olive oil. It is reported in Greek circles that Greece would participate in this deal by offering 5,000 tons of olive oil. Details have still to be determined between the two parties.

**Greek Import Requirements.**—A Reuter message from Athens states that applications for import permits are still being submitted to the Ministry of National Economy by various importing firms. The applications chiefly concern consumer goods, spare parts accessories, and raw materials for industries. Applications that concern first necessity items are given favourable attention and every effort is made so that approval may be given as quickly as possible in order to promote the development of Greek import trade. Lists have already been drawn up of imports which have been approved and will be carried out. Importers have deposited drachmae to the necessary amount with the Bank of Greece. Included among goods to be imported are rubber, chemical products and medical supplies.

**Priorities for New Penicillin Plants.**—In an effort to increase the production of penicillin, for which the world-wide demand far exceeds the present manufacturing capacity, the United States Civilian Production Administration, on December 26, 1945, announced that it would give special assistance to producers and builders of new penicillin plants. Because of the reputation penicillin has made since commercial production began in 1943, the international demand for it is soaring. Most of that demand centres upon the fourteen American plants, inasmuch as plants in Canada, Australia, and the United Kingdom produce only about enough to supply their own countries. Production has risen from approximately 400 million Oxford units in May 1943 to an estimated 700,000 million units in 1945.

## TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include exceptional marine risk insurance and other abnormal charges payable under present conditions.

### 28 Essex Street, W.C.2, January 9

"STILL rather quiet" would perhaps best describe conditions in the drug and chemical markets during the past week. The usual seasonal decline in activity is still manifest, but the general tone is steady. The few price changes that have occurred are small, but mostly in an upward direction, and reasonable optimism prevails of an early return to more normal trading conditions. Although a good export demand is being received, merchants continue to find difficulty in obtaining shipments and credits. Makers of PHARMACEUTICAL CHEMICALS report another week of average business with plenty of orders on hand; prices are without quotable change.

The market in CRUDE DRUGS has remained generally rather quiet, but inquiry for some items continues on a good scale. Values have been maintained, and in some instances may even tend to increase, as stocks of many products are at a low level. No developments have occurred in the position of ANTIMONY METAL, which remains in rather tight supply. As noted last week, the price of BISMUTH METAL has been advanced by 5d. per lb. All grades of CARDAMOMS are firm at high prices. Some small arrivals of CASCARA SAGRADA are expected in the near future. Business in CHILLIES has been quiet, but the price is steady. CLOVES is firm and fractionally dearer. ERGOT is exceedingly scarce, but the price of any available supplies has not further advanced. Some Tripoli bitter ORANGE PEEL may now be obtained on spot. Demand for RHUBARB continues keen, but no supplies are available at present. Some English CORIANDER SEED is reported and is available on the spot. WAXES are unchanged.

There are no price changes to record in the OILS markets. Business in ESSENTIAL OILS, outside the official distribution scheme, is restricted on account of lack of supplies. The Ministry of Food announces that there will be no changes in the existing prices of refined oils and imported edible animal fats allocated to primary wholesalers and large trade users during the eight-week period January 6 to March 2.

It is understood that sufficient quantities of AGAR are being imported from Australia

and New Zealand to meet the usual requirements for the preparation of bacteriological media, while applications for licence to import agar for the confectionery and pastille trades will receive consideration though it is not clear from what source such supplies will be obtained. No offer of Japanese are available from that country and it is likely to be many months before this source can be reopened. A meeting of agar merchants was held on January 8, to discuss the position.

### U.S. Drug Market Report

New York, January 4

ALTHOUGH operations in chemical plants have slowed down, the supply position for the majority of manufactured products has improved, and shortages are confined to comparatively few items. The authority for this view is a report issued by the U.S. Department of Commerce. According to the report, however, work stoppages in other industries are likely to have a "pronounced though delayed effect upon the chemical industry." Greater demand for many coal-tar products has resulted from a steel strike threat, as consumers are attempting to build up reserve stocks of such items as XyloL, Benzol and Toluol. The usual winter increase in consumption of prescription items such as the Sulphonamides and Salicylates has been in evidence. The Civilian Production Administration announces that imports of Alkaloids and related items from Brazil, Canada, Holland and Switzerland are to be placed in a Government stockpile, to be distributed by the organisation. Such supplies should ease the present shortage of Quinine and related products. Demand for Glycerin is strong and it is reported that some refined material should be arriving from Australia in the not too distant future. A high rate of domestic production of synthetic Methyl Alcohol is being maintained. End-of-the-year stocks of Botanical Drugs are low, while demand in the new year is expected to increase. Meanwhile, reports indicate that Argentine botanical crops now in preparation will be of moderate size and good quality. Quantities of the 1943 and 1944 crops have been exported to European countries which,



fore the war, were themselves exporters of these items. Such conditions seem likely to continue in 1946 unless European conversion is quickly established. A good consignment of ORANGE PEEL recently arrived in the U.S. from the West Indies, while the Food and Drug Administration states in a recent report that 129 bags of this item were detained on account of worm infestation. Many imported drugs have been detained recently by reason of their filthy condition and contamination. The New Year opens with many shortages among the ESSENTIAL OILS: stocks of PENNYROYAL, French FLORAL OILS, Italian BERGAMOT and LEMON oils are notably low, though reports current in trade circles indicate the imminent arrival of some Sicilian LEMON and BERGAMOT. A fair supply of BOIS DE ROSE recently arrived from South America, and a good consignment of Argentine PETITGRAIN has been received. Production of PEPPERMINT and PEARMINT during 1945 was somewhat larger than in the previous year, according to a Department of Agriculture report.

## Pharmaceutical Chemicals

**AMPHETAMINE.**—Steady at makers' price of 50s. per lb.

**ASPIRIN.**—Home market prices per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 4s. 1½d. (1-lb.); 4s. (4-lb.); 3s. 11d. (7-lb.); 3s. 10½d. (14-lb.); 3s. 9½d. (28-lb.).

**BISMUTH CARBONATE.**—Prices per lb. for the home market, in quantities of 14 lb.—28 lb., are as follows (containers in brackets): 11s. 2½d. (1-lb.); 11s. 1½d. (2-lb.); 11s. 1d. (4-lb.); 11s. (7-lb.); 10s. 11½d. (14-lb.). CITRATE, 2s. per lb. above; SALICYLATE, 6d. per lb. above; SUBGALLATE, 4s. 3d. per lb. above; SUBNITRATE, 5s. 2d. per lb. below.

**BORAX.**—Current rates per ton are as follows: B.P. quality, granulated, £38; crystal, £39; powder, £39 10s. Commercial grades, £8 per ton less. Packed in one-cwt. bags, delivered carriage paid in Great Britain in one-ton lots and upwards.

**BORIC ACID.**—Current rates per ton are as follows: B.P. quality, granulated, £60; crystal, £61; powder, £62. Commercial grades, £8 per ton less. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards.

**CHLORAL HYDRATE.**—Current prices are as follows: 1 cwt., 3s. 10d. per lb.; 56 lb., 4s.; 28 lb., 4s. 2d.; 14 lb., 4s. 6d.; 7 lb., 4s. 9d.; smalls, 5s. 3d.

**CITRATES.**—Prices per lb. current in the home market for POTASSIUM CITRATE, in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 3s. 7½d. (1-lb.); 3s. 6d. (4-lb.);

3s. 5d. (7-lb.); 3s. 4½d. (14-lb.); 3s. 3½d. (28-lb.). FERRI ET AMMON. CIT., B.P., 2d. per lb. above; SODIUM, B.P., 3d. per lb. below; POWDER, 1d. per lb. extra.

**CODEINE.**—Current prices per oz., for small lots are as follows: BASE.—½ oz., 55s. 3d.; 1 oz., 52s. 9s.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 4 oz., 50s. 3d. HYDROCHLORIDE.—½ oz., 50s.; 1 oz., 47s. 6d.; 2 oz., 46s.; 3 oz., 45s. 3d.; 4 oz., 45s. PHOSPHATE.—½ oz., 43s. 9d.; 1 oz., 41s. 3d.; 2 oz., 39s. 9d.; 3 oz., 39s.; 4 oz., 38s. 9d.

**DEXTROSE.**—Prices per lb. current in the home market for bulk supplies are as follows: 14 lb.—28 lb., in 14-lb. lots, 1s. 0½d.; 28 lb.—112 lb., in 14-lb. lots, 1s.; in 28-lb. lots, 11d.

**DIAMORPHINE.**—Current rates per oz. for small quantities are as follows: BASE.—½ oz., 58s. 6d.; 1 oz., 56s.; 2 oz., 54s. 6d.; 3 oz., 53s. 9d.; 4 oz., 53s. 6d. HYDROCHLORIDE.—½ oz., 54s. 3d.; 1 oz., 51s. 9d.; 2 oz., 50s. 3d.; 3 oz., 49s. 6d.; 4 oz., 49s. 3d.

**GLUCOSE.**—Home trade prices per lb. for powdered monohydrate are as follows: 14 lb.—28 lb., in 14-lb. lots, 11½d.; 28 lb.—112 lb., in 14-lb. lots, 11½d.; in 28-lb. lots, 10½d.

**IODINE PREPARATIONS.**—Current rates are as follows: POTASSIUM IODIDE, B.P.—112 lb., 9s. 3d.; 28 lb., 9s. 9d.; 14 lb., 10s. 3d.; 7 lb., 11s. 9½d.; 4 lb., 12s. 3½d.; smaller quantities, 12s. 9d. per lb. SODIUM IODIDE, B.P.—28 lb., 10s. 2d.; 14 lb., 10s. 8d.; 7 lb., 12s. 5½d.; 4 lb., 13s. 1½d.; smaller quantities, 13s. 11d. IODOFORM, B.P.—28 lb., 13s. 4d.; 14 lb., 13s. 10d.; 7 lb., 16s. 0½d.; 4 lb., 16s. 10½d.; smaller quantities, 17s. 8d. IODOFORM CRYSTALS.—2s. per lb. above powder prices. IODINE RESUBLIMED, B.P.—112 lb., 10s. 8d.; 28 lb., 11s. 2d.; 14 lb., 11s. 8d.; 7 lb., 13s. 5½d.; 4 lb., 14s. 1½d.; smaller quantities, 14s. 10d.

**LACTATES.**—Prices are as follows: LACTIC ACID.—Six-winchester lots, 3s. per lb.; smaller quantities, 3s. 1d. CALCIUM LACTATE.—Small quantities, 2s. 5d. per lb. CALCIUM SODIUM LACTATE.—Powder, small lots, 3s. 7d. per lb.; 14 lb.; 3s. 4d.; 28 lb., 3s. 2d.; granular, one penny per lb. extra.

**MAGNESIUM CARBONATE, LIGHT.**—Home market prices per lb., in lots of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 4d. (1-lb.); 1s. 2½d. (4-lb.); 1s. 1½d. (7-lb.); 1s. 1d. (14-lb.); 1s. (28-lb.). Prices net one month.

**MAGNESIUM TRISILICATE.**—Prices per lb. in the home market, in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 3s. 9½d. (1-lb.); 3s. 8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d. (14-lb.); 3s. 5½d. (28-lb.).

**MANDELATES.**—Makers' quotations are unchanged. SODIUM AND CALCIUM.—4 oz., 8 oz., and 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb., net. AMMONIUM (50 per cent. solution).—4 oz., 8 oz., and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb., net. Packages extra and returnable.

MANDELIC ACID.—Current rates are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

METHYL SALICYLATE.—Continues in good demand at unchanged prices. Smalls, 2s. 6d. per lb.; winchesters, 2s. 1½d.; 56 lb., in demijohns, 2s.; 1 cwt., in demijohns or carboys, 1s. 11½d.; 5 cwt., 1s. 11d. All prices net.

PHENOLPHTHALEIN.—Current rates are as follows: Less than 7 lb., 4s. 8d. per lb.; 7 lb., 4s. 7d.; 14 lb., 4s. 6d.; 28 lb., 4s. 5d.; 1 cwt., 4s. 4d.

POTASSIUM PERMANGANATE.—Current rates are as follows: B.P. (in 1-cwt. drums), 1 cwt. and over, 1s. 8½d. per lb.; 3 cwt. and over, 1s. 8d. TECHNICAL (in 1-cwt. drums), 1 cwt. and over, 166s. 3d. per cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. and over, 159s. 3d.; 1 ton and over, 156s. 9d.; 4 tons and over, 154s. 3d. TECHNICAL (in 5-cwt. drums), 5 cwt. and over, 156s. 9d. per cwt.; 1 ton and over, 154s. 3d.; 4 tons and over, 152s. Terms net, carriage paid station, containers extra and returnable.

PULV. BISMUTH. CO., N.F.—Prices per lb. current in the home market, for quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 2s. 6d. (1-lb.); 2s. 4½d. (4-lb.); 2s. 3½d. (7-lb.); 2s. 3d. (14-lb.); 2s. 2d. (28-lb.).

SANTONIN.—Prices per kilo are as follows (price per oz. in brackets): 25 kilos, £42 (23s. 10d.); 10 kilos, £43 (24s. 5d.); 5 kilos, £44 (24s. 11d.); 2–4 kilos, £45 (25s. 6d.); 1 kilo, £46 (26s. 1d.); 500 gm., £47 (26s. 8d.); 250 gm., £48 (27s. 3d.); 100 gm., £49 (27s. 9d.); smaller lots, £50 (28s. 4d.).

SULPHANILAMIDE.—Supplies are good and the price is steady at from 8s. to 9s. per lb., according to quantity.

TERPINEOL.—Pure medicinal quality is available at from 3s. 3d. to 4s. per lb., according to quantity.

THEOBROMINE.—The following prices are ruling: ALKALOID.—Smalls, 44s. 6d. per lb.; 7 lb.—28 lb., 43s. SODIUM SALICYLATE.—Smalls, 26s. 6d.; 7 lb.—28 lb., 25s. 3d. Tins extra.

## Crude Drugs

ANTIMONY.—There is no change in the position of this metal. Prices are as follows: English minimum 99 per cent. regulus, £112 10s. per ton, delivered; 70 per cent., crude, for the home trade, £90.

ARECA NUTS.—Spot supplies are not available but new consignments are expected.

BALSAMS.—Canada is obtainable in small lots on spot at 13s. 6d. to 14s. per lb.; Peru, unchanged at 8s. 3d. per lb.; Tolu and Copaiba are unobtainable.

BELLADONNA.—English herb may be obtained at 4s. 6d. per lb. Low-testing Indian root is priced at 2s. 3d. per lb.

BENZOIN.—No supplies are available to meet the continued demand for this article.

BISMUTH.—As noted last week, the metal is now quoted at 6s. 8d. per lb., in minimum 5-cwt. lots.

BUCHU LEAVES.—Some small lots may be available on spot at 5s. 6d. per lb.

CANTHARIDES.—Offers are reported from China at 34s. per lb., f.o.b.

CARDAMOMS.—Firm and at high prices Aleppy seed, spot, 8s. per lb.; Aleppy greens 7s. to 7s. 3d. per lb., spot.

CASCARA SAGRADA.—As noted last week some small arrivals of bark are expected.

CHAULMOOGRA.—*Hydnocarpus*, spot, 2s. per lb., in tins in cases.

CHILLIES.—Steady at around 130s. per cwt on spot.

CINNAMON CHIPS.—Quoted on spot at 2s. 2d. per lb.

CLOVES.—Firm and fractionally dearer on spot. Zanzibar, spot London, 1s. 8d. per lb. value. January–February, to arrive, 9½d., c.i.f.

COCHINEAL.—Silvers are quoted on spot at 5s. 9d. per lb.

COCOA BUTTER.—Sales at the official price must not exceed 1s. 5½d. per lb. Higher rates may be charged under licence.

COLOCYNTH.—From 2s. 6d. to 2s. 9d. per lb. would be wanted on spot for fair-quality white pulp, according to seller.

DIGITALIS LEAVES.—Portuguese leaves are steady at 140s. per cwt.; English, 2s. 6d. per lb.

ERGOT.—Scarce. Spot, if available, would be worth 7s. 6d. per lb.

GINGER.—West African, spot, 85s. per cwt.

GUM ACACIA.—Kordofan cleaned sorts is offering on spot at 73s. per cwt.; bleached, spot, 145s.; Talha, cleaned, 42s. 6d.

HENBANE.—Indian leaf is firm on spot at 250s. per cwt., and Egyptian (*muticus*) at 85s.

JALAP.—Material containing 10 per cent. resin would be obtainable on spot at 3s. 6d. per lb.

KAMALA.—Powder testing 6 per cent. ash may be had on spot at 2s. 9d. to 3s. per lb.

KARAYA GUM.—Indian No. 1 gum, spot, 210s. per cwt.

MALE FERN ROOT.—Spot quotation for Indian root is unchanged at 85s. per cwt.

MERCURY.—Official prices are unchanged (C. & D., October, 13, 1945, p. 388).

MYRRH.—Good-quality Aden sorts are offered on spot at £18 per cwt.

NUTMEGS.—Supplies are difficult at present. Current prices are: West Indian, 80's, 4s. per lb.; sound unassorted, 3s. 8d.; wormy and broken, 3s. 4d.

NUX VOMICA.—Price from origin is at 37s. 6d. to 40s. per cwt., c.i.f., for Cochin, washed and garbled.

ORANGE PEEL.—Thin-cut Tripoli bitter peel is offered on spot at 6s. per lb., ex Glasgow.



**PEPPER.**—Whole, not picked over or cleaned, sale to processors, is officially priced at 1s. 4d. per lb. for white and 1s. per lb. for black.

**PIMENTO.**—Quiet conditions obtain, with spot prices at 1s. 6d. per lb.

**SEEDS.**—The only change is in English **BRANDER** which is now available on spot at 5s. per cwt., sellers. Other prices are as follows: **ANISEED.**—Turkish, spot, 2s. 8d. per cwt. **CUMIN.**—Maltese, spot, 15s.; Indian, none available. **DILL.**—Spot, London, 80s.; Liverpool, 80s. **FENNEL.**—Nothing available. **FENUGREEK.**—Hull, 67s. 6d. **MUSTARD.**—The Mustard Seed Order, 1945, replaces the Mustard Seed (Control and Maximum Prices) Order, 1942.

**SENEGA ROOT.**—Value would be about 1s. 6d. to 12s. per lb., if available.

**SENNA.**—Good demand for Alexandrian and-picked pods; price nominal at 4s. per lb. Good manufacturing Alexandrian pods, 2s. per lb. Tinnevely leaves, No. 1, 10½d. per lb.; No. 2, 8½d.; No. 3, 7d.

**STROPHANTHUS SEED.**—Kombé seed, 100 per cent., is available at 7s. per lb.

**TRAGACANTH.**—Spot prices of medium grades are as follows: No. 1 white, £142 per cwt.; No. 2 white, £120; No. 3 white, £105; No. 4 white, £85; pale leaf, £60; amber leaf, £50; dark amber, £35; brown leaf, £25; red-and-brown leaf, £20; red leaf, from £17; hoggy, 12 to 15s.

**TURMERIC.**—Sound-quality Madras finger may now be obtained on spot at 120s. per cwt., sellers; forward shipment, unchanged at 67s. 6d. per cwt., c.i.f.

**WAXES.**—**BEESWAX**, non-Government stocks, **Par-es-Salaam**, February–March shipment, 295s. per cwt., c.i.f.; **Benguela**, January–February shipment, 275s. per cwt., c.i.f. **CARNAUBA.**—Fatty grey, to arrive, 675s., landed; February–March–April shipment, 600s., nominal, c.i.f.; chalky grey, spot, not available; March–April shipment, 695s., c.i.f.; prime yellow, spot, 800s., nominal; February–March shipment, 710s., nominal, c.i.f.

## Essential and Expressed Oils

**CASTOR.**—Maximum prices for bulk supplies are as follows: "Firsts," £82 per ton; "seconds," £80, both naked ex works.

**CLOVE.**—Quotations for English-distilled bulk oil are unchanged at 12s. 6d. to 13s. per lb., according to quantity.

**COCONUT.**—Fixed prices are as follows: **Crude**, £49 per ton; refined deodorised, £49; refined hardened deodorised, £53.

**GROUNDNUT.**—Refined deodorised is officially quoted at £58 per ton, ex works, in bulk lots.

**OLIVE (EDIBLE).**—Price charged to wholesaler by importer is 25s. 9d. per gall., ex store. Prices charged by wholesalers to retailers are agreed by Ministry of Food as follows: 33s. 6d. per gall. in 1-gall. loan cans; 34s. 3d. in ½-gall. loan cans; 35s. in 1-quart loan cans; 36s. per gall. in 1-pint cans.

## COMING EVENTS

### Tuesday, January 15

**HARROW BRANCH, PHARMACEUTICAL SOCIETY,** Meeting-room, Baptist Church, College Road, Harrow, at 7.15 p.m. Mr. D. G. Ardley on "Chemotherapy of Bacterial Infections."

**BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY,** Grand Hotel, Birmingham, at 7.45 p.m. Mr. R. Gaddie, B.Sc. (Biochemist to the General Hospital, Birmingham), on "Biochemistry in Relation to Pharmacy."

**NORTH METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY,** Beale's Restaurant, Holloway Road, London, N.7, at 7.30 p.m. Mr. F. G. Wells (a past-president of the Pharmaceutical Society) on "Pharmaceutical Organisation."

### Wednesday, January 16

**SHEFFIELD SCIENTIFIC FILM SOCIETY.** Grand Hotel, Sheffield, at 7.45 p.m. Film show by Mr. C. Gregory.

**ROYAL SOCIETY OF ARTS,** John Adam Street, Adelphi, London, W.C.2, at 1.45 p.m. Sir Jack Drummond, F.R.S., on "Famine Conditions and Malnutrition in Europe."

**DUNDEE AND EAST AND CENTRAL SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY,** Regal Rooms, Tay Street, Dundee, 7 p.m. till 1 a.m. Whist drive, supper and dance.

**LIVERPOOL CHEMISTS' ASSOCIATION AND BRANCH,** Adelphi Hotel, Liverpool, at 7.30 p.m. (reception from 7 p.m.). Annual dinner.

**WEST KENT BRANCH, PHARMACEUTICAL SOCIETY,** Methodist Church Parlour, Bromley Road, Beckenham, Kent. Messrs. G. A. Campbell, M.Sc., and T. F. West, Ph.D., on "The Story of DDT in 1945."

**NORTH-WEST 1 AND 2 DISTRICTS, NATIONAL PHARMACEUTICAL UNION,** Midland Hotel, Manchester, at 3.15 p.m. Mr. G. A. Mallinson (secretary) on "The N.P.U. and its Policy in regard to Post-war Pharmacy."

**SOUTH-WEST LONDON CHEMISTS' ASSOCIATION AND BRANCHES,** Express Banqueting Hall, St. John's Hill, Clapham Junction, London, S.W., 5.45–10.45 p.m. New Year reunion dinner, dance and entertainment. Dinner at 6.15 p.m. (dress optional). Tickets 15s. each.

### Thursday, January 17

**CHEMICAL SOCIETY,** Burlington House, Piccadilly, London, W.1, at 5 p.m. Professor E. D. Hughes, D.Sc., on "Substitution" (Tilden lecture).

**BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY,** George Hotel, Luton, at 7.15 p.m. Dr. Wrigley (director of research, Roche Products, Ltd.) on "Later Vitamin Products."

### Sunday, January 20

**MANCHESTER PHARMACEUTICAL ASSOCIATION.** Ramble to Macclesfield, Langley and Walker Barn. Meet London Road Station, 9.20 a.m. Book Macclesfield return.

## TRADE MARKS

(From "The Trade Marks Journal,"  
December 19, 1945)

"VIVICILLIN"; for pharmaceutical substances and preparations (5). By Hans Emanuel Neumann Enoch, 241 Sunningfields Road, Hendon, London, N.W.4. 629,498 (Associated).

"HOMO-BAC," "HOMO-DIST," "HOMO-MAST" and "HOMO-PLAC"; for veterinary preparations (5). By Belmont Veterinary Products & Prophylactics, Ltd., 111 Union Street, Glasgow, C.2. 634,752-55 (All Associated).

A cross device (with colour limitation) and words "Carus Product" (word "Carus" disclaimed), above a laurel spray; for menstruation appliances, bandages and underclothes; bandage materials, medical and surgical dressings and plasters, regenerated cellulose wadding (pharmaceutical), and medicated toilet paper (5). By A. Carus & Sons, Ltd., Hoddlesden Mill, Johnson Road, Hoddlesden, Darwen, Lancs. 634,964 (Associated).

"HEPARVIT" and "HEPARVIT-B" (letter "B" disclaimed); for pharmaceutical preparations of liver extract (5). By Roche Products, Ltd., 40 Broadwater Road, Welwyn Garden City, Herts. 635,160-61 (Both Associated).

"LESTREFLEX"; for medical and surgical plasters (5). By A. de St. Dalmas & Co., Ltd., Dalma Works, Junior Street, Leicester. 635,613 (Associated).

"SANDORAY"; for analgesic lotions, lotions for the treatment of chilblains, and lotions for the treatment of the eyes, all being pharmaceutical preparations for external use (5). By Sandoray Products Co., 51 The Strand, Ryde, Isle of Wight. 635,723.

"DI-PRO"; for chemical substances (pharmaceutical) prepared for use in gynaecology (5). By Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2. 636,052.

"SANMEXANE," "SANMEXINE" and "SANMEXIDE"; for pharmaceutical substances (human and veterinary); sanitary substances, disinfectants, weed killers and vermin destroyers (5). By The British Products Sannex Co., Ltd., 23 St. Andrew's Square, Glasgow, C.1. 636,457-58 and 636,460 (All Associated).

"CRUSADER"; for medicated toilet paper (5); for non-medicated toilet paper (16). By Sankey-Hudson & Co., Ltd., Crusader Works, Chapel Street, Ancoats, Manchester. 635,535-36 (Both Associated).

"METCOLIZED"; for refractory, semi-refractory and part-refractory apparatus and appliances for metallurgy and metal-working or for heat-treatment in chemical, dental, and other industrial processes (9). By Metalizing Engineering Co., Inc., c/o Marks & Clerk, 57-58 Lincoln's Inn Fields, London, W.C.2. 632,694.

"ANOPHOTO"; for photographic instruments and apparatus (9). By J. V. Rushton (Lon-

don), Ltd., 173 Clarence Gate Gardens, Glentworth Street, London, N.W.1. 633,63 (Associated).

"RIGHT ANGLES"; for razor blades (8). By Liss Brothers, Lisbro House, Gillespie Road, London, N.5. B636,205.

### APPLICATIONS AMENDED AFTER ADVERTISEMENT

Specification No. 634,513, by B. D. Edwards, should be altered so as to read, "Pharmaceutical preparations for human and veterinary use, sanitary substances, medical and surgical plasters, material prepared for bandaging, disinfectants, sanitary towel and sanitary knickers."

(From "The Trade Marks Journal,"  
December 27, 1945)

"WELPLEX"; for industrial, scientific and photographic chemicals; synthetic resins, plastics for industrial purposes (not being paints, varnishes or lacquers or in the nature of rubber); adhesive substances used in industry (1); for surgical prostheses; surgical instruments and apparatus (10); and for gutta percha, india rubber and artificial rubber, materials made from these substances, etc. (17); "CYANOSORB"; for industrial, scientific, agricultural and forestry chemicals (excluding weed-killers, insecticides and fungicides), all containing hydrocyanic acid (1); and for sanitary substances, disinfectants, and vermin destroyers, all containing hydrocyanic acid (5). By Imperial Chemical Industries, Ltd., Wexham Road, Slough, Bucks. 634,389-90-91; B635,794-95 (All Associated).

"UNIKOL"; for natural resins, and anti-corrosives (2). By the Union Oxide & Chemical Co., Ltd., Forum House, 15-18 Lime Street, London, E.C.3. 635,864 (Associated).

"VIRVET"; for perfumery, toilet preparations, cosmetic preparations and dentifrices (3). By B. Watson Chemicals, Ltd., 177 Upper Richmond Road, East Sheen, London, S.W.14. 636,549.

"LARVICINE"; for insecticides (5). By The British Fumigants Co., Ltd., 25 Short Street, London, S.E.1. B635,630.

"VETAVAC"; for pharmaceutical preparations and substances (5). By J. S. Horridge and G. H. Horridge, 77 High Street, Tarporley, Cheshire. 636,730.

"REEVITE"; for pharmaceutical preparations for the treatment of the skin (5). By Elsie M. Rees, Garth View, Bridgend Road, Maesteg, Glam. 636,852.

"DIGNUS"; for pharmaceutical preparations and substances (5). By J. Worthington, 210 Ealing Road, Wembley, Middlesex. 637,149.

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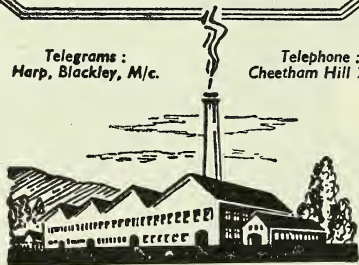
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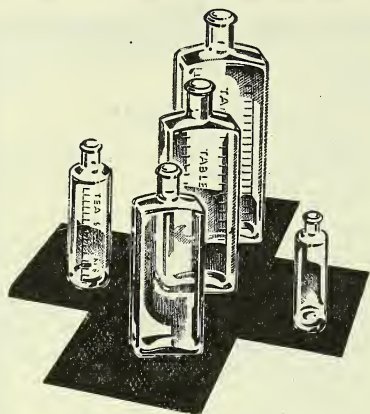
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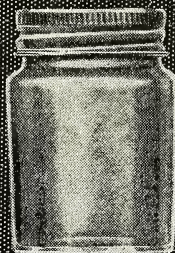


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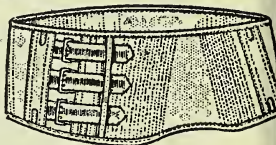
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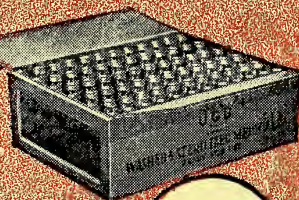
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Page 187

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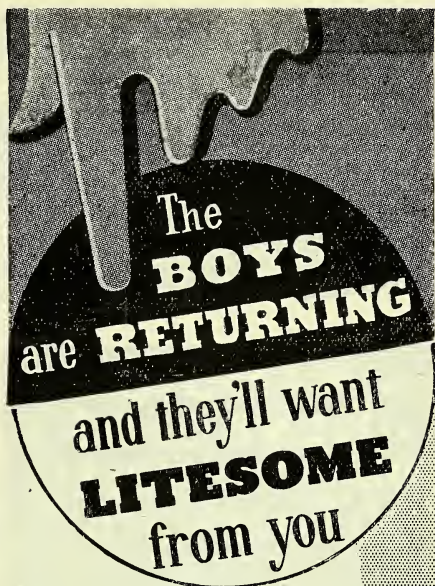
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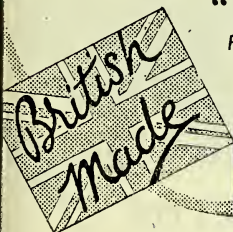
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253 KINGSLAND ROAD, LONDON, E.2

Clerkenwell 8576



... IS THE WORLD'S FINEST  
MILK FOOD

you can recommend it with  
every confidence for infants.  
It is a Prideaux product, and  
shows a good profit.

Ask for details and Special Terms.

PRIDEAUX MILK FOODS LTD  
EVERCREECH, SOMERSET



# Lifeline

Once again Britain has kept the wolf from the door. The nation's thanks are due to the seamen for bringing in so much food during the war years and to the Ministry of Food for seeing that it went where it was most needed. Undoubtedly the children's excellent state of health owes much to the 'official' issue of cod liver oil to 'under-fives' and expectant mothers—a wise and far-sighted move impossible to execute had our sea-lanes been closed.

Those who were not eligible for the subsidised issue—and many who found it more convenient to buy from their chemists—turned to SevenSeaS for health protection and extra nourishment. And because the seamen never failed us, we were able to supply the public with pure cod liver oil. Throughout the difficult years, SevenSeaS never varied from its high 1939 standard, though sometimes there were shortages. Today the nation's need for it is greater than ever before, and now that our own trawlers are back on the job, there is plenty of pure cod liver oil for everyone in every chemist's shop.

STANDARD OIL: Vitamin A 20,000 I.U.; Vitamin D 2,500 I.U. per oz.  
CONCENTRATED: Vitamin A 60,000 I.U.; Vitamin D 6,000 I.U. per oz.

BRITISH COD LIVER OIL PRODUCERS (HULL) LIMITED,  
ST. ANDREW'S DOCK, HULL, ENGLAND.

# OPTREX TULLE

TULLE GRAS

**N.B.** OPTREX TULLE is a new, medicated dressing with many important advantages. *The following details are published for the information of users and suppliers.*

## FULLY MEDICATED

Optrex Tulle is impregnated with a petroleum-jelly compound containing Balsam of Peru.

## NON-ADHERENT

Risk of damage to new tissue is reduced to a minimum; changing of dressings is painless and free from bleeding.

## CONVENIENT IN USE

The open "mesh" of Optrex Tulle permits free drainage of the wound; any discharge passes through the Tulle and is absorbed by the outer dressing. Changing of dressings can therefore be reduced.

## RAPID HEALING

The medicated Tulle has a continuous antiseptic action and encourages healing and cicatrisation.

*Supplied in Tins of 24 Dressings, 4" x 4".*

*Price 5/- per tin less 33 $\frac{1}{3}$ % discount.*

*Chas. F. Haekray*

*Sole distributors for Optrex Tulle*

The OLD MEDICAL SCHOOL, Park St., Leeds  
and 252 Regent St., London, W.I.

# BABLETS

(Baby's Own Tablets.)

For TEETHING TROUBLES  
Constipation, Feverishness,  
Disturbed Stomach  
and other Simple Ailments of  
Infants and Children  
Laxative, Comforting, Digestive

**P.A.T.A.**

EXTENSIVELY ADVERTISED

DO NOT LOSE SALES

GET IN A STOCK AT ONCE

YOU RUN NO RISK

SALE IS GUARANTEED

Your Wholesaler Can Supply

G. T. FULFORD CO. LTD. (of Canada)

8 Royston Park Road, Hatch End, Mx.

*Mountains  
of lather in  
"MISSIE"*

THE SOAPLESS SHAMPOO  
FOR THE FULLER HAIR  
STYLES



Backed by nation-wide advertising in National and Provincial Press, Women's Magazines, Specialized Publications. Retailers at 4 Generous discount. Ask your wholesaler or write direct to Sole Distributors: Splendor Ltd., Beasmarket Hill, Nottingham.

*Missie* REGD.  
SOAPLESS SHAMPOO  
A Baldwin Product



**Every month over**

**35,275,000**

**people see**

**VALDERMA**

ANTISEPTIC BALM

**Advertising**



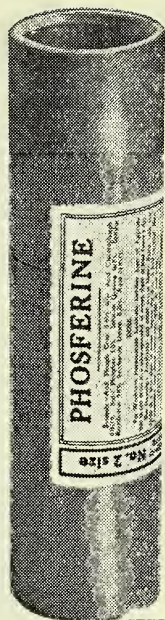
No wonder  
this fast selling  
line makes  
big profits  
for go ahead  
chemists

**ORDER  
TO-DAY**

**STANDARD SIZE 2/-** a jar including tax. Trade price 15/- per doz.  
Purchase Tax 2/6 per doz.

**LARGE SIZE 3/6** a jar including tax. Trade price 26/- per doz.  
Purchase Tax 4/4 per doz.

**AE HEALTH LABORATORIES LTD., 25/27, BERNERS STREET, LONDON, W.1**



# PHOSFERINE

## TABLETS and LIQUID

● PHOSFERINE is a popular Tonic Medicine which has won world-wide reputation—its popularity being largely due to personal recommendation by those who have benefited by its use.

Phosferine Advertising which makes no extravagant claims consistently keeps our product before the notice of the Public.

**Make sure your stocks are equal to the demand**

**PHOSFERINE (Liquid and Tablets)**  
available in 2 sizes

No. 1 retails at 1/4 including Purchase Tax

No. 2 " " 3/3 " " "

PHOSFERINE (Ashton & Parsons) Ltd., Phosferine Laboratories,  
King George's Avenue, Watford, Herts.

# D.D.D. BALM

*in free supply*

D.D.D. Balm, the new non-greasy and antiseptic ointment for skin troubles, is in free supply. It is supported by a wide advertising campaign, and is having a popular reception from the public, among whom are many old friends of the liquid D.D.D. Prescription. This non-greasy, antiseptic and healing balm encourages the elimination of any pus and hastens the natural process of healing. The preparation is one you can confidently recommend, it is an assurance of steady profitable business.

**TRADE TERMS:**  
16/- per dozen

Pur. Tax 2/8 per doz.  
Inclusive Retail Price  
2/- per jar.



**SHOWCARDS—**  
are available to  
those who stock  
D.D.D. Balm.

## D.D.D. CO., LTD.

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**SURE-SELLING STOCK**

OVER 150 YEARS REPUTATION

## KEARSLEY'S

THE ORIGINAL

### WIDOW WELCH'S FEMALE PILLS

9d. BOX PROFIT by ordering 1 dozen 2/10 size.  
Bonus box given on every dozen (13). It pays to  
push this size.

**C. & G. KEARSLEY LTD**

71 DARTMOUTH RD., LONDON, S.E.2

Established 1787 In the Reign of King George I

NON-POISONOUS

# DENGERM

TRADE MARK

IDEAL

8" &

ANTISEPTIC

1/3 Inc Tax

## DENGERM LTD.,

LONDON, S.E.1



# "OXOID"

The word "OXOID" is the trade mark of OXO Ltd.,  
and is used in connection with their therapeutical  
preparations both in tablet and fluid extract form.  
ORGANO-THERAPEUTICAL PRODUCTS

## OXO LABORATORY PREPARATIONS

### PERNICIOUS ANÆMIA

## OXO LTD'S LIVER EXTRACT FOR INJECTION (I.M.)

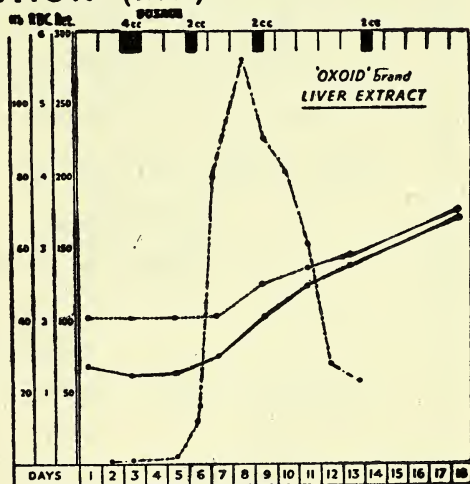
A highly potent preparation for the treatment of pernicious anæmia. Dosage in emergency cases is 4 c.c. initial dose, followed by 2 c.c. at three days intervals in the first week and 2 c.c. at weekly intervals subsequently. This will usually raise the blood count to normal in a few weeks.

Maintenance dose: 2 c.c. monthly.

Supplied in ampoules of 2 c.c. and  
Bottles of 10 c.c. and 20 c.c.

Ampoules: 6 (6/6); 12 (12/6); 50 (48/-);  
100 (92/-).

Bottles: 10 c.c. (4/9); 20 c.c. (8/6).



#### KEY TO GRAPH.

- ..... Haemoglobin per cent.
- Red blood corpuscles in millions.
- Reticulocytes per 100 red cells.

Literature supplied on application.

**OXO LIMITED, Thames House, London, E.C.4**

★ OXO LABORATORY PREPARATIONS ★

# AGAIN AVAILABLE IN LIMITED SUPPLY **BELLADENAL**

## Antispasmodic Anticonvulsive Sedative

BELLADENAL combines the central sedative action of phenobarbitone with the peripheral antispasmodic action of the total laevorotatory alkaloids (Bellafoline) of Belladonna leaves.

The components of Belladenal act synergetically with each other so that a powerful antispasmodic and sedative effect is obtained with comparatively small doses.

### *Each Tablet contains :*

**Bellafoline            1/250 grain**  
**Phenobarbitone    3/4 grain**

---

### Supplied in :

**Tablets: Tubes of 20 and bottles of 100, 250 and 500**

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### *Wholesale distributors:—*

**BROOKS & Warburton, LTD.**  
232-242 Vauxhall Bridge Road, London, S.W.1

### *Technical Enquiries :*

**SANDOZ PRODUCTS**  
134 Wigmore Street, London, W.1





# The CHEMIST AND DRUGGIST

## SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

JANUARY 12  
1946

28 ESSEX STREET, LONDON, W.C.2

Travelling restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send instructions as early as possible. Advertisements must be prepaid. Box Office Numbers 1/- extra.

### REPRESENTATIVES IN PALESTINE

#### CHEMO-SANITAS

Representatives of British Chemical Products and Cosmetics, P.O.B. 4217 TEL-AVIV, Palestine

WE INVITE OFFERS FROM CAPABLE  
BRITISH MANUFACTURERS OF:—

PHARMACEUTICAL PRODUCTS  
COSMETICS . CHEMICALS . PAINTS

We Buy Also For Our Own Account

### SITUATIONS OPEN

for 40 words or less, 2d. for every additional word.

#### RETAIL (HOME)

**NOTTS** have vacancies for Qualified men of outstanding ability who are ambitious, keen, prepared to work hard; ex-Service men are med. Are you above average? If so phone, or call Ascotts Pharmacies (1933), Ltd., 400 Avenue, Wembley. Phone Wembley 2113.  
**ACKPOOL.** Lady Assistant required, capable of taking charge when required; must be fully trained in Drugs, Cosmetics and Photography; dispensing experience not necessary. 944/288, C. & D. London Office.

**ACKPOOL.** A Manager will be shortly required for High-class Drug Store; must be fully trained in Drugs, Cosmetics and Photography; to take complete charge and control staff; applications from early demob. groups considered. 289, C. & D. London Office.

**SPENSERS.** Experienced men and women required Central London area; full time; vacancies. Apply "D," c/o 945/292, C. & D. London Office.

**DRUG** girls desired for clerical work in the N.H.I. Checking Bureau and Stock Pricing Department. Apply National Pharmaceutical Union, 4-5 New Square, W.C.1.

**GLING.** An interesting post as Manageress of a High-class Drug Stores is available to an Unqualified Lady with good experience: good salary on a commission on sales over a fixed minimum will be paid; room for initiative; no "red tape" methods; all holidays with pay; elderly person with the mentality not objected to. Write full details experience, stating age and salary expected, to United Medicine Co., 22a Bond Street, Ealing.

**EXPERIENCED** Qualified Lady Assistant required for sole Pharmacy in large Sussex village. Dispensing, Counter, etc., light, clean work conditions; congenial atmosphere, pleasant surroundings; generous salary to right person; permanency; other assistants. 943/251, C. & D. London Office.

**HERTS.** Qualified Lady or Gentleman required; permanency; very reasonable hours; good salary. Post eminently suitable for Pharmacist who prefers undisturbed dispensing; no counter duties unless applicant prefers. 943/253, C. & D. London Office.

**HULL.** Young Qualified Assistant wanted, take charge of Dispensing Dept., counter and general duties; energetic. Full particulars, age, references, etc. 944/266, C. & D. London Office.

**LADY** Dispenser-Clerk required, private Mental Hospital, South London. Write with copies of recent testimonials and salary desired. Box A.625, Willings, 362 Grays Inn Road, W.C.1.

**LONDON, S.W.** Experienced Assistant required (male) for dispensing only. Hours 8.45 a.m. to 5.30 p.m.; Saturdays 1 p.m. Write giving full particulars to Box 597, Sells, Ltd., Brettenham House, Strand, W.C.2.

**QUALIFIED** Dispenser/Assistant required immediately for High-class Pharmacy; unfurnished flat over shop available. Applications with full particulars in first letter will receive preference. Henry Davis (Newbury), Ltd., Dispensing Chemist, Northbrook Street, Newbury.

**QUALIFIED** Lady Assistant required for Dispensing business. Rayner & Son, 39 High Street, Uxbridge.

**QUALIFIED** and Unqualified Assistant required immediately; permanent posts; no Sunday or holiday duties. State salary required and send references to E. Tranmer, M.P.S., 42 High Street, Smethwick, Birmingham.

**REQUIRED** Immediately. Temporary Assistant Dispenser—one needing experience would suit. Apply by letter with full particulars to Mrs. Fletcher, Broadway House, The Broadway, Herne Bay, Kent.

**ROYAL ARSENAL CO-OPERATIVE CHEMISTS, LTD.,** invite applications from Qualified Pharmacists for the position of Manager; Unqualified Assistants also required; good prospects and holidays with pay. Apply in writing, stating age, experience and salary required, to the Superintendent Chemist, Royal Arsenal Co-operative Chemists, Ltd., 113 Powis Street, Woolwich, S.E.18.

**SELFRIDGES, LTD.,** require an Assistant Buyer for the Drugs Dept.; the appointment carries a good salary for an energetic and fully qualified young man. Also an Unqualified Dispensing Assistant (male or female) required with good practical experience; no week-end duties. Apply: Staff Manager, 400 Oxford Street, W.1.

**SURREY.** Required Young Lady (Unqualified) as Counter Assistant. Hours 9 a.m. to 6 p.m. Please state experience and salary required in application. Morrell & Howells, High Street, Cobham.

**TORQUAY.** Qualified and/or Unqualified Assistant, male, required; good-class dispensing business; usual particulars first letter. 944/265, C. & D. London Office.

**UNQUALIFIED** Assistant required immediately for medium-class business; congenial situation with permanency for suitable applicant; no extra duties. State age, experience, salary required in first letter to Jones, Chemist, 155 Church Road, Northolt, Middx. Tel. Waxlow 1817.

**UNQUALIFIED** Assistant for Dispensing required; permanency and good prospects for suitable applicant. State age, experience and approximate salary required to H. Hocken, Ltd., Chemists, 33 Station Road, Redhill, Surrey.

**WANTED** immediately for Manchester area, experienced Qualified Assistant (male), for busy Pharmacy; good prospects for capable applicant. Reply 945/296, C. & D. London Office.

**WANTED.** Dispenser Book-keeper, for a firm of three doctors, to take duty in February. Apply Dr. Oliver, 21 Church Street, Maidstone, stating experience, etc.

**WATFORD.** Unqualified Assistant, either sex, for Dispensing and Counter, knowledge of Photography and Window Dressing an advantage; no Sunday or holiday duty. State full particulars in first letter. Chuter, Chemists, Watford.

### RETAIL (OVERSEAS)

**REQUIRED** for Departmental Store in Ceylon, Qualified Assistant Chemist, age 25 to 30; four years' agreement; free medical attention; passage paid. Apply giving fullest details as to age, experience, etc., to Box 174, c/o Streets, 110 Old Broad Street, E.C.2.

### WHOLESALE

**A DEVELOPMENT ASSISTANT** is required in the Research Department of a firm of Surgical Dressing Manufacturers in Yorkshire. A young man or woman graduate is preferred, but a broad sound education is more important than high academic qualifications; a knowledge of Physics to at least H.S.C. or equivalent standard is essential. A knowledge of Chemistry, Mathematics or Biology is desirable and experience with Rubber or Thermoplastics would be an advantage. The salary will depend on the individual. Write giving full particulars including age, education and experience. 944/264, C. & D. London Office.

**ADDITIONAL** Lines offered in all areas; Powder Puffs, Nursery Lines, etc.; good commissions to right representatives; all first-class products. 943/254, C. & D. London Office.

**ALLEN & HANBURY'S, LTD.**, have vacancies on their representative staff for young Pharmacists for a number of areas in England; consideration given to members of H.M. Forces with low group numbers. Applications to Personnel Manager, Allen & Hanburys, Ltd., Bethnal Green, E.2.

**AN** old-established firm of world-wide repute have an important appointment vacant for a man of mature experience in the Control and Manufacture of High-class Perfumery and Cosmetics (4711). Must be able to supervise production and control the factory staff in close collaboration with the executive; a good permanency with opportunities for research and initiative. Apply giving full particulars of age, experience, salary, etc., this information will be treated in the strictest confidence, to H. E. C., c/o R. J. Reuter Co., Ltd., "4711" Factory, Slough, Bucks.

**ANGLO-IRANIAN PHARMACEUTICAL CO., LTD.**, Tavistock House South, Tavistock Square, London, W.C.1, have a vacancy for a young Pharmacist, 25-30, required for medical propaganda in Persia. All applications should be made by letter, stating age, qualifications and experience.

**COMPANY** of international repute marketing requires first-class representatives in four areas comprising the following: (1) East side of Scotland, (2) Part Lancs., (3) West of England, (4) London north of the Thames. A high standard of ability is required for progressive position carrying salary, commission and expenses. Full particulars please in first letter; incomplete applications cannot be considered. 945/293, C. & D. London Office.

**ASSISTANT** required for Tablet Department Manufacturing House, London, N.W.; experience of granulation processes desirable. Compounder for preparation of Pharmaceutical Both positions offer opportunities for advancement to conscientious workers. Apply, stating age, experience and salary required, to 943/255, C. London Office.

**EVANS MEDICAL SUPPLIES, LTD.**, has vacancies for Pharmacists to represent in certain areas including: (a) Central London contact doctors and hospitals. (b) Southern Counties, to contact doctors and hospitals. (c) A Leicestershire area to call on retail pharmacists. Applicants stating age, experience, qualifications, type of area preferred, to Evans Medical Supplies, Home Medical Dept., Speke, Liverpool, 19.

**EXPERIENCED** Assistants required for all Counties (Wet, Dry, Chemical, etc.) by Manufacturing Chemists, close to Central London. Vacancies at the rate of 87s. per week or according to experience. Apply 944/283, C. & D. London Office.

**EX-SERVICE** Pharmaceutical Chemist or Pharm., as Assistant to Director in charge of manufacture; qualification essential; salary £350. Apply to Managing Director, John Bell, Hills & Lucas, Oxford Works, Worsley Bridge Rd., London, S.E.

**FIRST-CLASS** opening for Salesman representing established house having wide range of medical and medicated products proprietaries; national distribution and advertising. Successful applicant should be under 35, have had some previous experience selling to chemists, but must really understand selling and be of exemplary character. Attractive salary and commission; Lancashire Cheshire ground. Write full application to 945 C. & D. London Office.

**FOOD** Chemist required with experience in development of new Food Products. Reply with full details to Box No. 268, New Era Advertising Service, Ludgate House, 107 Fleet Street, E.C.4.

**MANUFACTURING** Chemists, Liverpool, have a vacancy for an Assistant to the General Manager. The position offers scope for a man with initiative and enthusiasm; age preferred, 30 to 35. Must be a Pharmacist; manufacturing experience advantageous, with ability to control staff.

Particulars of training, experience and salary as should be stated in application, which will be treated as confidential. 945/294, C. & D. London Office.

**MANUFACTURERS** of exceptionally attractive and saleable Pharmaceutical Specialities require sole agents on generous commission terms in the following three territories: (1) Eastern Counties, (2) South and Mid. Wales, (3) Midlands. Applicants must have strong connections amongst retail wholesale Chemists, Stores and Co-ops, and cannot more than two other firms' products; applications will only be considered from men of stable initiative who are not afraid of hard work. Selected men will receive credit for all orders received direct and indirect from their territories. Full particulars required of age, experience, lines carried, etc.; this information will be treated in the strictest confidence. 944/286, C. & D. London Office.

**MANAGER** required by Manufacturing Chemicals for administration of works and laboratory; organising ability essential; preference for men with previous practical experience. Replies in confidence to 941/185, C. & D. London Office.

**PRODUCTION** Manager, age 30/45, required for Midland firm manufacturing Sundries. Applicants should be capable of applying modern production and factory management methods, and should have experience of manufacturing Toilet preparations. Give full details including age and salary required. CDB/437, C. & D. London Office.

**QUALIFIED** Pharmaceutical Chemist required with experience in manufacture of Pharmaceutical and Medicinal specialities, to control manufacturing section of well-known firm in North England. 944/260, C. & D. London Office.



REPRESENTATIVE wanted for S.E. London, Kent, and part of Surrey, to sell well-advertised proprietaries known throughout the trade for excellence; must be well experienced in calling qualified Chemists in these areas. Commission, expenses. Write Box No. 6547, Armstrong-69, New Oxford Street, W.C.1.

REPRESENTATIVE for London and/or South Coast Counties, Home Counties; commission established lines. The Red Band Chemical Co., Richmond Terrace, Edinburgh.

ALL Representative for Wholesale Chemists' Sundries House, full time, lady or gentleman, experienced Chemists' Sundries, Surgical Dressings, etc. Flats, etc.; working Retail Chemists, London and local Midlands, Wolverhampton, etc. State experience, wages required, age, whether free to start immediately; own car an advantage. 944/270, C. & D. London Office.

Executive wanted capable developing new sales; fine opportunity for first-class man. Stating age, experience, salary expected. Kent, 24 Old Bond Street, W.1.

Sales Manager, 30/45, required by Birmingham firm of Chemists' Sundries manufacturers, who have more than 50 years and selling branded in most export markets and at home. Applicant must be thoroughly experienced in all phases of Export development, and should give details of duties covered and success attained. £1,000 plus commission. CDB/436, C. & D. London Office.

Research Chemists, one with knowledge of organic Synthesis, and the other with experience of Plant Extracts, Alkaloids and Glandular tissues, required by Canadian organisation. To right men these represent great opportunities. In confidence to 944/275, C. & D. London

IST Telephonist required with knowledge of chemist lines for prominent and progressive firm with Wholesale Chemist. Apply in writing to Allied Drug & Chemical Co., 1 Robert St., N.W.1. NTED by Manufacturing Chemists, Unqualified man. Write stating age, experience and salary. Castle Huskisson, Ltd., Swinton Works, Street, London, N.1.

NTED capable, experienced Buyer (man or woman) by Manufacturing Chemists manufacturing internationally-known Cosmetic and Pharmaceutical products; knowledge of jar, tube and paper cases and packaging design essential; good and excellent prospects; an important job in exceptionally energetic person. Write in confidence stating full particulars, firms worked for salary earned. 944/284, C. & D. London Office.

WORKING Foreman for Manufacturing Department in Cosmetic firm in London, N.1; must have knowledge of Creams, Lipsticks and General D Lines, etc. Particulars of experience, age, salary required. Write 944/269, C. & D. London

WORKS Manager. Southon Laboratories, Ltd., offer a position with excellent prospects to a capable Chemist (aged about 40) who must have had class experience in Manufacturing, Controlling Materials, Supervising Production and Packing. Ten applications only, giving age and full details of previous experience and salaries earned. Southon Laboratories, Ltd., 88 Upper Richmond Rd., Putney, S.W.15.

## SITUATIONS WANTED

5 for 18 words or less, 1d. for every additional word.

### RETAIL (HOME)

ADY, 38 years, wants position as Assistant, Pharmacy Counter, Toilets, and knowledge of retail; excellent references; S.W. London preferred. 943/250, C. & D. London Office.

## LOCUMS SEEKING ENGAGEMENT

LOCUM, disengaged January 7, experienced, competent, reliable; highest references; reasonable terms; any period. Particulars to Bishop, White Hart Hotel, Henley-on-Thames.

## WHOLESALE

ADVERTISER, capable, energetic, long experience, Retail, Wholesale. Manufacture cosmetics, toilet, pharmaceuticals, etc.; filling, finishing, staff and stock control; factory routine, desires post as Working Production or Works Manager/Foreman. Wages £8-9 (tact). 945/300, C. & D. London Office.

ADVERTISER, with 30 years' Wholesale and Retail experience, desires position as Checker or Stock-keeper with Wholesale House; London or Croydon area; ex refs.; interview, free Wednesday afternoons. 942/198, C. & D. London Office.

ASSISTANT (29), Unqualified, 10 years' experience retail, desires post as Representative in any capacity; willing to go abroad; excellent references 944/278, C. & D. London Office.

EXPERIENCED Representative, first-class salesman, with live connexion Chemists and leading Stores in London and Southern Counties, requires one or two additional pharmaceutical, perfumery or toilet requisites. 944/274, C. & D. London Office.

FREE Soon. Chemists' Supervisor, considerable experience, seeks only firm with good Travellers and Exports for excellent lines; sample and selling will prove (serious and keen). 944/262, C. & D. London Office.

GENTLEMAN (35), 5' 9", 15 years' good-class Retail experience in Pharmacy, desires post in London as Representative of well-established firm dealing in Medicinal or Toilet Products; conscientious and trustworthy; capable car driver; disengaged shortly. 944/287, C. & D. London Office.

GENTLEMAN, 33, all-round experience Pharmaceutical trade, Retail, Representative and Wholesale, desires change, preferably representative. 945/302, C. & D. London Office.

M.P.S., 34, married, public school, six years' firm London, now demobilised after 5½ years commissioned service in Navy, seeks situation with Wholesale or Manufacturing House. Accustomed to running staff and with considerable experience of machinery. 945/314, C. & D. London Office.

UNQUALIFIED seeks Wholesale situation, 20 years' experience; Indoors, or as representative, would consider investment with right prospects; at present managing retail. 944/259, C. & D. London Office.

## WANTED

7/6 for 36 words or less, 2d. for every additional word.

JARS wanted, 4-oz. capacity complete with Lids (Plastic if possible). Samples and prices, any quantity, to Manufacturing Chemists, 145 Turnpike Lane, N.8.

SURPLUS Stocks: White Beeswax, Spermaceti, Cinnamic Aldehyde, Vanillin, Ethyl Vanillin, Coumarin, Lemon Grass Turpenes; also any Essential Oils; Citronella, Geranium, Petit Grain, Anise, Peppermint, Spearmint, Sandal Wood, Lavender, Bergamot, Patchouli, Lemon Grass, Palma Rosa, etc. CDB/433, C. & D. London Office.

SPONGE Bags, Soap Cases, Plastic or other material wanted by Wholesale Distributors; substantial quantities from Manufacturers only. 944/271, C. & D. London Office.

WANTED 4-oz. Medical Flats or Bow Panel Bottles, amber or white flint, 100 gross to 1,000 gross; will collect and pay prompt cash. 942/212, C. & D. London Office.

WANTED. Complete Still, 30-50 gallons capacity, in stainless steel, copper or glass lined; also under-driven Electric Hydro Extractor, 48 in. basket Reed Bros. (Engineering), Ltd., Bevis Marks House, London, E.C.3. Avenue 1901/5.

## EXPORT TRADE

**EXPORT.** Agent desires contact firms eager for business with Eire, cosmetics, toilets, etc.; own agent in Dublin; ideas welcomed. 944/277, C. & D. London Office.

**INDIA.** Leading Manufacturer's Representative (established 1926), having had extensive pre-war Continental connexions and sound All-India distribution, is desirous of contacting British Manufacturers of Proprietarys, Toiletries, Beauty Products and Allied general articles. References, Barclays Bank, Ltd., 168 Fenchurch Street, London, E.C.3. Correspondence invited. Write R. B. Shewaram Dewanmal & Co., 1 Britto Road, Karachi 5, India.

**SOUTH AFRICA.** Manufacturing Chemist, well introduced, wishes to contact manufacturers of known Pharmaceutical Products, Cosmetics and Proprietarys with object of representation and possible manufacture in South Africa. Bank references available. P. Israel, 213 High Level Road, Seapoint, Cape Town.

## PREMISES FOR SALE

**FACTORY** space available for immediate occupation; London company disposing of several of its factories in and around London. Floor space 3,000 sq. ft., 25,000 sq. ft., and 36,000 sq. ft. on own grounds, totalling approximately 1,000,000 sq. ft. Particulars without obligation by appointment in London. No correspondence entered into through staff shortage. 942/210, C. & D. London Office.

## PREMISES WANTED

**SURPLUS** Floor Space Wanted. Will manufacturers having Surplus Floor Space due to cessation war contracts consider renting 10,000 sq. ft. upwards to Fine Chemical Manufacturers of high standing. Replies in confidence to 941/184, C. & D. London Office.

## MISCELLANEOUS SALES

12/6 for 60 words or less, 1/- each additional 10 words or less

**25,000** Mono Waxed Containers, Screw Lids, 6 fl. oz., unprinted. 944/290, C. & D. London Office.

## TENDERS

### METROPOLITAN BOROUGH OF LAMBETH

**SURPLUS CIVIL DEFENCE STORES**  
To Chemists and Druggists.

The Council have for disposal a quantity of Medical Goods, Dressings, Medicines, Drugs and Instruments, surplus to requirements, and which are now offered to traders dealing in such goods.

A list of the goods for disposal and further particulars can be obtained from Room No. 46, Lambeth Town Hall, Brixton Hill, S.W.2.

O. L. ROBERTS,  
Town Clerk.

## BUSINESS OPPORTUNITIES

7/6 for 40 words or less, 2d. for every additional word.

**PRIVATE** Investor wishes to purchase Group or Chain of Shops; would interest those contemplating retirement; bankers' credentials would be furnished before details given. Please write 942/221, C. & D. London Office.

**TO** Small Manufacturers. Full distribution of your products, on a commission basis, is offered to small manufacturers who have no full selling organisation; all retail trades covered. 944/281, C. & D. London Office.

## APPOINTMENTS

**APPLICATIONS** are invited for the post of Dispenser (Qualified). Salary £300 per annum, with bonus at present £59 16s. per annum.

Apply Medical Superintendent, Cheshire County Mental Hospital, Parkside, Macclesfield.

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### KENT COUNTY OPHTHALMIC AND AURAL HOSPITAL, MAIDSTONE

(111 Beds)

Applications are invited from registered Pharmacists for the post of Pharmacist which become vacant on the 1st April, 1946. Commencing salary £350 per annum rising by annual increments of £10 to £400. The post is pensionable under the Federated Superannuation Scheme for Nurses and Hospital Officers. Applications stating age, qualifications and experience, accompanied by copies of three testimonials, should reach the undersigned by 4th February.

JOHN W. STRICKLAND, F.H.A.  
Secretary.

### SURREY COUNTY COUNCIL

BROOKWOOD MENTAL HOSPITAL  
KNAPHILL, WOKING

Applications are invited for the post of ASSISTANT PHARMACIST at the above Hospital. Applicants must possess the M.P.S. qualification. Salary £250, rising by annual increments of £10 to £300 per annum, plus Council's War Bonus, at present £59 16s. per annum. The appointment is subject to the provisions of the Asylum Officers' Superannuation Act, 1909, and to the Council's staffing regulations, and the successful candidate will be required to pass a medical examination. Applications stating age and experience, together with copies of recent testimonials, to be sent to the Medical Superintendent as soon as possible.

### SURREY COUNTY COUNCIL

ST. LUKE'S HOSPITAL, GUILDFORD

ASSISTANT PHARMACIST. Temporary. Must be M.P.S. or Ph.C. Salary £250 × £10 = £300 p.a. plus bonus 23s. p.w. male, 18s. 6d. p.w. female. Apply to Medical Superintendent.

## TRADE MARKS

**OVINAL** Trade Mark Application. Will anyone having any objection to the registration of the Trade Mark for medicinal goods please inform Mart Jack & Co., Chartered Patent Agents, 88 Chancery Lane, London, W.C.2. An application to register has been made but the object of this advertisement is to reduce delay in ascertaining the position.

## AGENCIES

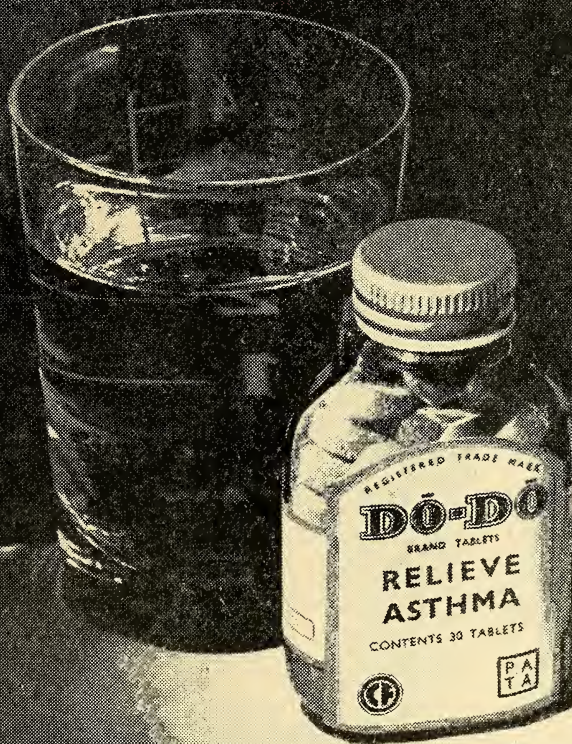
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**ADDITIONAL** Lines wanted. A firm of agent covering many parts of Great Britain would be interested in offers of additional lines for sale to Chemists, Co-ops, Hairdressers, Grocers, Toy Dealer both retail and wholesale. Full-time representation is assured by travellers covered by fidelity bond 944/279, C. & D. London Office.

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**LANCS.** Ches., Yorks. One or two additional lines required in this area. 944/280, C. & D. London Office.





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